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MITSUBISHI CS-27205 OWNER'S MANUAL

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MITSUBISHI

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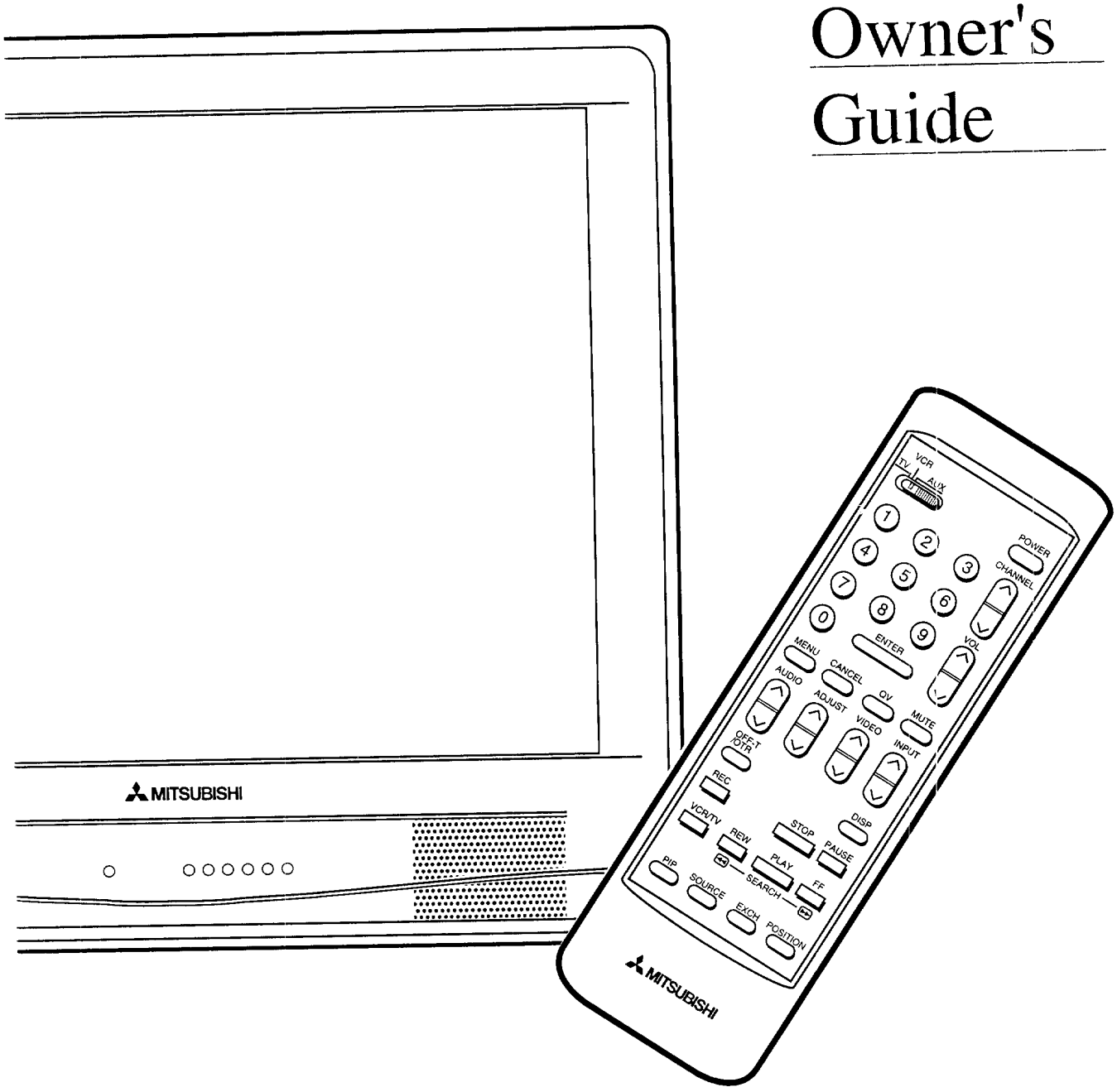
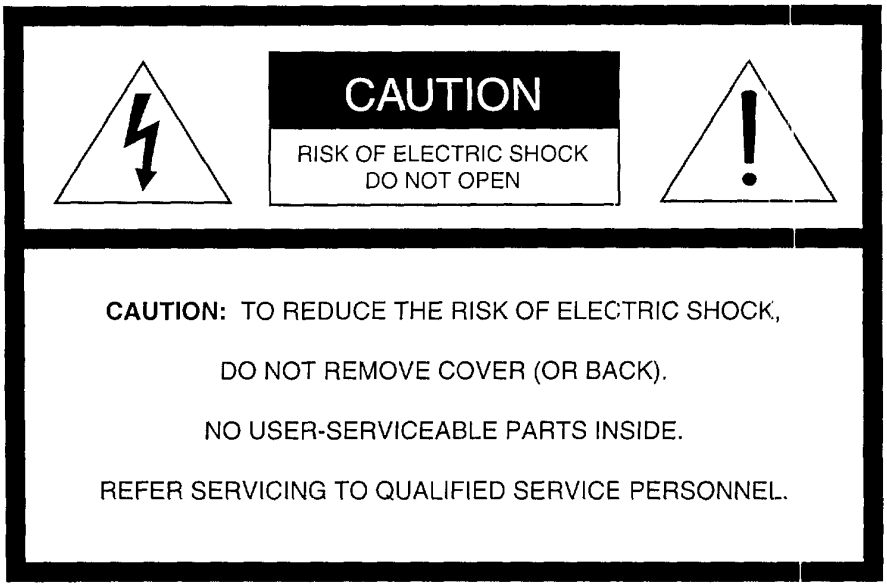
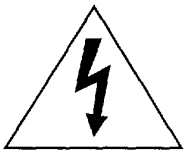
TV Owner's Guide




CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:

TO PREVENT ELECTRIC SHOCK HAZARD, DO NOT USE THIS UNIT'S (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

NOTE TO CATV SYSTEM INSTALLER:

THIS REMINDER IS PROVIDED TO CALL THE CATV SYSTEM INSTALLER'S ATTENTION TO ARTICLE 820-40 OF THE NEC THAT PROVIDES GUIDELINES FOR PROPER GROUNDING AND, IN PARTICULAR, SPECIFIES THAT THE CABLE GROUND SHALL BE CONNECTED TO THE GROUNDING SYSTEM OF THE BUILDING, AS CLOSE TO THE POINT OF CABLE ENTRY AS PRACTICAL.

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IMPORTANT SAFEGUARDS

PLEASE READ ALL THESE INSTRUCTIONS REGARDING YOUR TELEVISION SET AND RETAIN FOR FUTURE REFERENCES. FOLLOW ALL WARNINGS AND INSTRUCTIONS MARKED ON THE TV RECEIVER.

1. Read Instructions
   All the safety and operating instructions should be read before the appliance is operated.

2. Retain Instructions
   The safety and operating instructions should be retained for future reference.

3. Heed Warnings
   All warnings on the appliance and in the operating instructions should be adhered to.

4. Follow Instructions
   All operating and use instructions should be followed.

5. Cleaning
   Unplug this TV receiver from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.

6. Attachment and Equipment
   Never add any attachments and/or equipment without approval of the manufacturer as such additions may result in the risk of fire, electric shock or other personal injury.

7. Water and Moisture
   Do not use this TV receiver where contact with or immersion in water is a possibility. Do not use near: bath tubs, wash bowls, kitchen sinks, laundry tubs, or swimming pools, etc.

▶Warning: Don't leave stationary images, such as those generated from stock market reports or video games, on-screen for more than 10 minutes. Still patterns can scar the TV causing permanent damage to the picture tube.

8. Accessories
Do not place this TV receiver on an unstable cart, stand, tripod, bracket, or table. The TV receiver may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod bracket, or table recommended by the manufacturer, or sold with the TV receiver. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

S 3126 A

9. Ventilation
Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the TV receiver and to protect it from overheating. Do not block these openings or allow them to be blocked by placing the TV receiver on a bed, sofa, rug, or other similar surface, nor should it be placed over a radiator or heat register. If the TV receiver is to be placed in a rack or bookcase, ensure that there is adequate ventilation and that the manufacturer's instructions have been adhered to.

10. Power Sources
This TV receiver should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your appliance dealer or local power company.

11. Grounding or Polarization
For your safety, this TV receiver is equipped with a polarized alternating current line plug having one blade wider than the other. This plug will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of polarized plug.

12. Power-Cord Protection
Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

13. Lightning
For added protection for this TV receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video product due to lightning and power-line surges.

14. Power Lines
An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

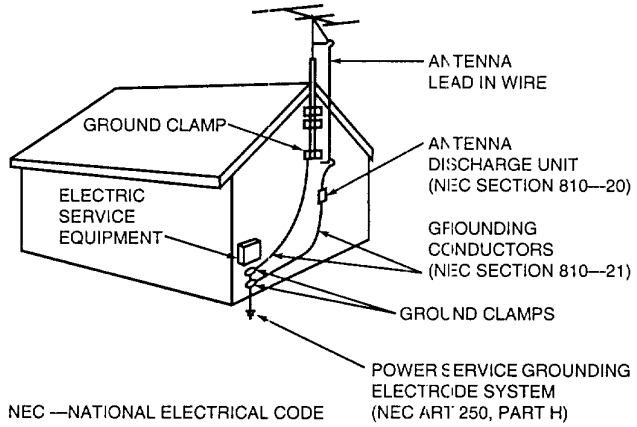
15. Overloading
Do not overload wall outlet and extension cords as this can result in a risk of fire or electric shock.

16. Object and Liquid Entry
Never push objects of any kind into this TV receiver through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the TV receiver.

17. Outdoor Antenna Grounding
If an outside antenna or cable system is connected to the TV receiver, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges.

Section 810 of the National Electrical Code, ANSI/NFPA No.70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

EXAMPLE OF ANTENNA GROUNDING
AS PER NATIONAL ELECTRICAL CODE



18. Servicing
Do not attempt to service this TV receiver yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

19. Damage Requiring Service
Unplug this TV receiver from the wall outlet and refer servicing to qualified service personnel under the following conditions:
(a) When the power-supply cord or plug is damaged.
(b) If liquid has been spilled, or objects have fallen into the TV receiver.
(c) If the TV receiver has been exposed to rain or water.
(d) If the TV receiver does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV receiver to its normal operation.
(e) If the TV receiver has been dropped or the cabinet has been damaged.
(f) When the TV receiver exhibits a distinct change in performance - this indicates a need for service.

20. Replacement Parts
When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

21. Safety Check
Upon completion of any service or repairs to this TV receiver ask the service technician to perform safety checks to determine that the TV receiver is in a safe operating condition.

PREFACE

Welcome to Mitsubishi

Congratulations on your purchase of a Mitsubishi TV. Your TV is designed for superb viewing pleasure as well as continued reliability.

To familiarize you with your TV and owner's guide, we suggest that you read through the preface, which provides the following important information:

- **Summary of Special Features**
- **Unpacking Your TV**
- **What's in Each Chapter**
- **Some Conventions Used in this Guide**

Mitsubishi has strived to create your TV so that it will bring you years of viewing enjoyment. Similarly, your owner's guide is designed with a "user friendly" philosophy that will help you take advantage of all of your equipment's features.

Once again, thank you for selecting our product and welcome to Mitsubishi!

◆ Summary of Special Features

Your top rated Mitsubishi TV delivers:

- **181-Channel Capacity** --- programs up to 181 channels, ensuring your continued viewing pleasure as cable services continue to expand.

- **Two-Speaker Sound System** --- a special speaker system that produces clear stereo sound.

In addition to the standard features found on most advanced TVs, Mitsubishi is proud to offer the following distinctive features:

- **Remote Control with TV/VCR/AUX Function (CS-27305)** --- uses a single remote control transmitter for the television, certain Mitsubishi VCRs, and also some VCRs and cable boxes made by other manufacturers.

  Remote Control with VCR/TV Function (CS-27205) --- uses a single remote control transmitter for both the television and select Mitsubishi VCRs.

  The function of the remote control is changed by simply flipping a switch.

- **On-Screen Displays** --- appear whenever you adjust your TV, showing you the status of your TV's various functions.

- **On-Screen Menu** --- simplifies the television's features with easy to follow instructions.

- **Closed Caption Decoder** --- supplies you the text information along with the regular broadcasts.

- **Extended Data Services** --- (also known as "XDS,") allows broadcasters to supply you with the time of day, channel information, and program information. You can display this information on-screen.

- **Picture-in-Picture Mode (CS-27305 only)**--- allows you to view two different sources at the same time.

Each of these features will be explained in more detail in Chapter 3, "Operating Your TV," and Chapter 4, "Using the Special Features."

◆ Unpacking Your TV

What you will find

As you unpack your new TV, please check to be sure that along with the TV, the following items are included:

- an owner's guide containing a warranty,
- a registration card,
- a remote control transmitter, and
- a set of two AAA size batteries for the remote control.

A few suggestions

Before you hook up your new TV, please take a few minutes to:

❶ Complete the registration card. The registration card asks for the TV's serial number, which you'll find on the back of the unit.

❷ Keep the box and packing materials for future use.

❸ File your sales receipt.

❹ Place the TV on a stable surface with sufficient lighting to do the hook-up.

◆ What's in Each Chapter

Here's what you will find in this owner's guide:

Chapter 1, "Getting to Know Your TV," introduces you to the location and functions of the buttons and controls of your TV.

Chapter 2, "Connecting Your TV," explains how to connect a VCR, antenna, decoder and other equipment to your TV.

Chapter 3, "Operating Your TV," provides the step-by-step instructions you need in order to use your TV.

Chapter 4, "Using the Special Features," explains how to use some of the special features of the TV.

Chapter 5, "Troubleshooting," summarizes the problems you may have along with the suggestions for solving these problems.

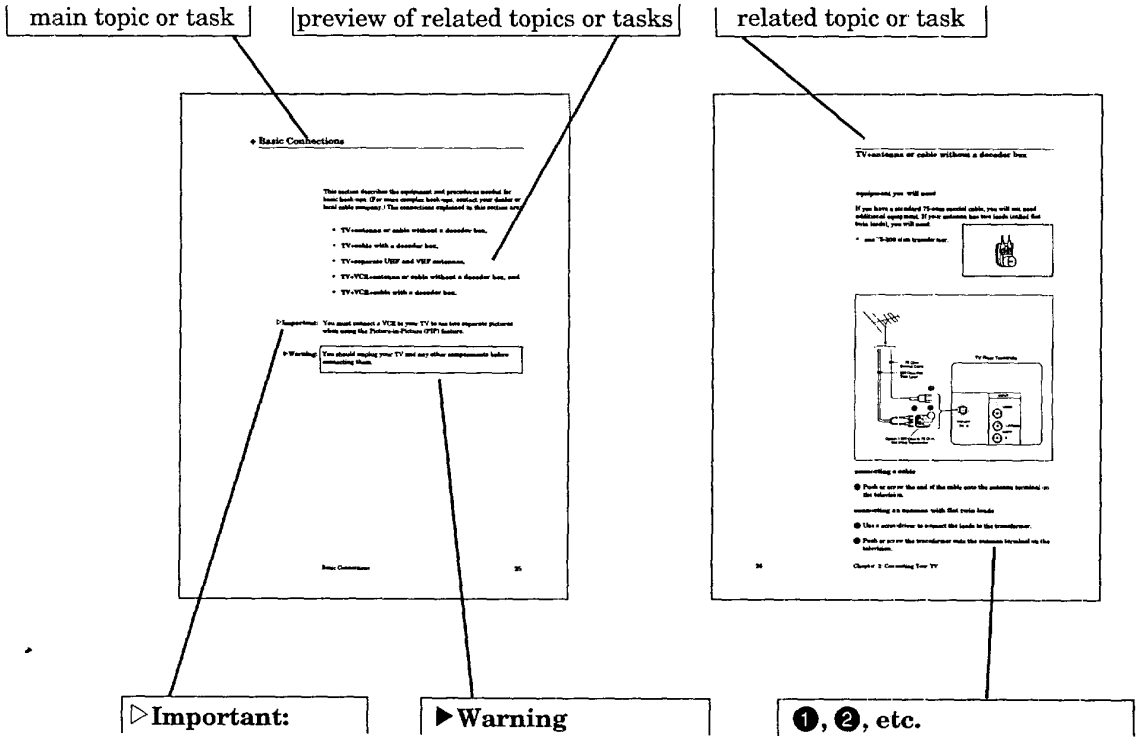
The appendix explains an automatic procedure for the parental lock.

You'll also find a detailed index at the back of the book.

◆ Some Conventions Used in this Guide

Mitsubishi has gone to great effort to provide users with an easy-to-follow, useful owner's guide. You will find that different types of information are treated in different ways.

Users should read information labeled **Important** and information that is boxed and labeled **Warning**. The owner's guide uses these terms sparingly, and all information highlighted in this manner should be read carefully.



▷Important:

This cue indicates information critical to the operation of your new TV.

▶Warning

This cue alerts you to information describing dangerous situations which could ruin your equipment or cause electrical shock.

❶, ❷, etc.

The step-by-step instructions on how to accomplish a particular task are signaled by white numbers set in a black background.

CHAPTER 1

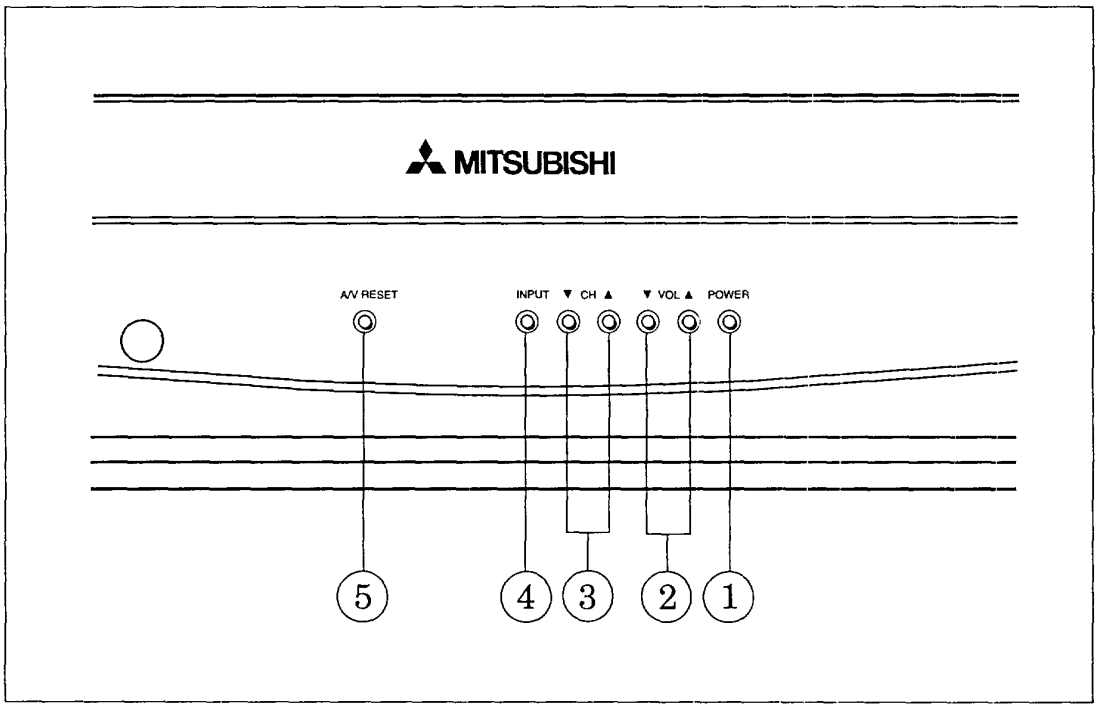
Getting to Know Your TV

Now that you've unpacked your TV, read through the safety information, and glanced at the overview explaining how this owner's guide is organized, it's time to become familiar with the buttons and controls you'll be using when you operate the TV. This chapter will introduce the range of options available when using the buttons on the remote control or on the front panel of the TV. It also offers some general guidelines for using the remote control.

Most functions can be controlled by using either the front panel or the remote control, but certain specialized functions require the use of one or the other. This chapter, which will familiarize you with the full range of button functions, contains the following sections:

- **Overview of the Front Panel**
- **Overview of the Remote Control**

◆ Overview of the Front Panel



(1) power button (POWER)
Use this button to turn the TV on or off.

(2) volume controls (VOL)
Press the ▲ button to turn up the volume and the ▼ button to turn down the volume.

(3) channel controls (CH)
Use the ▲ button to switch to a channel with a higher number and the ▼ button to switch to a channel with a lower number.

(4) input button (INPUT)
Use this button to select the input source to be viewed:
- TV, or
- External.

(5) A/V reset button (A/V RESET)
Press this button to reset all audio and video functions to their factory setting. This button does not affect the settings for volume, reception mode (Stereo/SAP/Mono) and closed captioning.

◆ Overview of the Remote Control

Getting ready to use the remote control

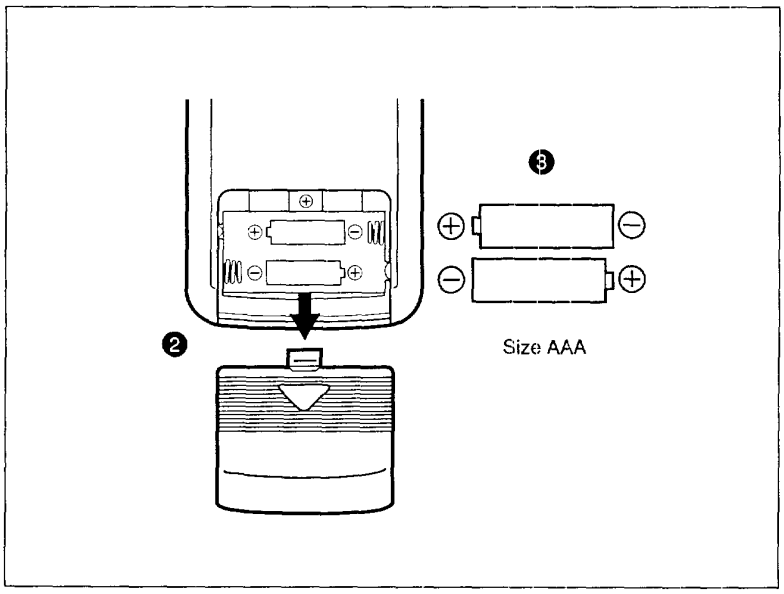
installing the batteries

❶ Take the box containing two AAA size batteries from the packing bag.

❷ Remove the back cover of the remote control by pushing in the direction of the arrow.

❸ Load the batteries as indicated in the illustration, making sure that they are positioned correctly (+ to +, and – to –).

❹ Replace the back cover of the remote control.



For best results, use Duracell AAA (MN2400) batteries.

some do's and don'ts

To ensure that your remote control will continue working properly, follow these guidelines:

- Don't press two or more buttons at the same time, unless specifically instructed to do so in this owner's guide.
- Don't allow the remote control to get wet or become heated.
- Avoid dropping the remote control on a hard surface.
- When cleaning the remote control, don't use any harsh chemicals. Use only a soft, slightly moistened cloth.

general instructions

When using the remote control to operate the TV, VCR, or cable box, follow these procedures:

❶ Be within 20 feet of the desired equipment.

❷ Point the tip of the remote control toward the equipment.

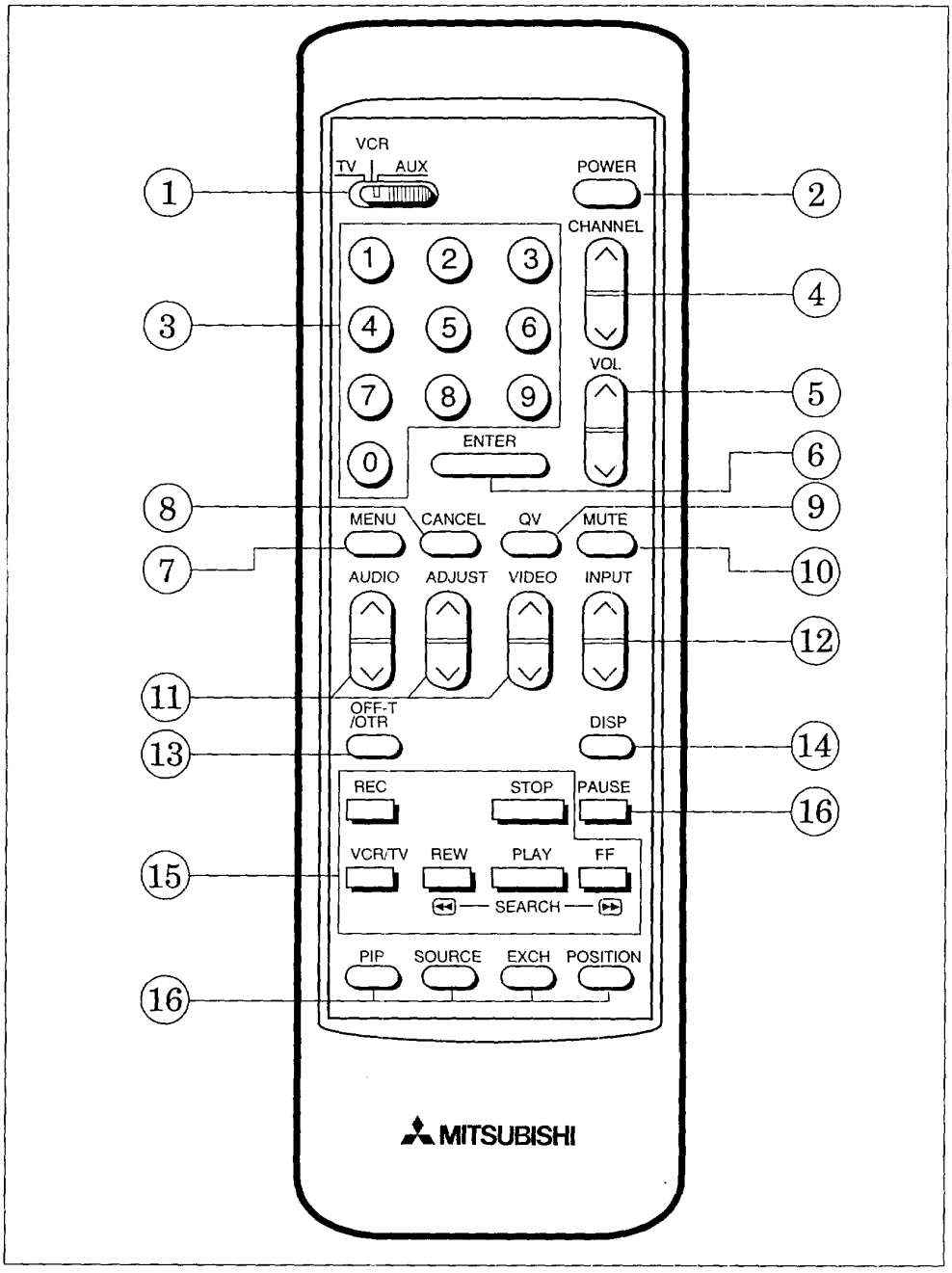
❸ Press the appropriate button or sequence of buttons.

guidelines for using batteries

- Don't use a new battery with an old one.
- Don't heat, take apart, or throw batteries into a fire.

The following section explains more about the range of options available when using the remote control.

Remote control buttons and functions



(This illustration shows the CS-27305 remote control. The CS-27205 remote control is slightly different.)

Remote control buttons and functions (cont.)

①**CS-27305: TV/VCR/AUX switch (TV/VCR/AUX)**
Set this switch to "VCR" or "AUX" to operate a VCR or the abox; set it to "TV" to operate the TV.

CS-27205: VCR/TV switch (VCR/TV)
Set this switch to "VCR" to operate a VCR and "TV" to operate the TV.

②**power button (POWER)**
Use this button to turn the TV on or off.

③**number buttons (0-9)**
Use these buttons to select a channel number or to enter the parental lock code.

④**channel control (CHANNEL)**
Press the top part of this button to change to a channel with a higher number; press the bottom part to change to a channel with a lower number.

⑤**volume control (VOL)**
Press the top part of this button to turn up the volume; press the bottom part of this button to turn down the volume.

⑥**enter button (ENTER)**
Use this button after selecting a channel number, to select an item from the on-screen menu system, or to add a channel to the super quick view memory.

⑦**menu button (MENU)**
Use this button to display the on-screen menu system, which contains additional instructions for special functions.

⑧**cancel button (CANCEL)**
Use this button to cancel an entered channel number, to clear a channel programmed into super quick view memory, and to clear the settings of some on-screen menus.

quick view button (QV)
⑨Press this button to switch between the current channel and the last one viewed. When the super quick view tuning is set, use this button to view channels programmed into super quick view memory.

⑩ **mute control (MUTE)**
Use this button to turn the sound off completely or restore it to its original volume. This button works for the TV even if the TV/VCR/AUX switch (or VCR/TV switch) is not set to "TV."

⑪ **audio and video controls**
These buttons are used in pairs to adjust features of the image or sound (other than volume) with a two-step process: use the AUDIO or VIDEO buttons to select a function, then use the ADJUST button to adjust the function.

- **audio function button (AUDIO)** --- Use to select one of the following audio functions:
  - stereo/SAP/mono,
  - bass,
  - treble,
  - balance, or
  - audio expansion on/off.

- **video function button (VIDEO)** -- -Use to select one of the following video functions:
  - tint,
  - color,
  - contrast,
  - brightness,
  - sharpness, or
  - closed captioning.

- **adjust button (ADJUST)** --- After selecting an audio or video function, use the ADJUST button to adjust the function you've selected. These buttons can be used to:
  - turn the function on or off (e.g., audio expansion),
  - increase or decrease the function (e.g., color),
  - shift from one end of a scale to the other (e.g., balance), or
  - select a position (e.g., stereo).

You will also use the adjust buttons to select items on the on-screen menus.

⑫ **input button (INPUT)**
Use this button to select the input source you wish to watch:
- TV, or
- External.

⑬ **off-timer button (OFF-T/OTR)**
Use this button to program the TV to turn off automatically at a later time.

Remote control buttons and functions (cont.)

⑭ **display button (DISP)**
Use this button to view an on-screen summary of the current TV settings and the display related to Extended Data Services (XDS).

⑮ **VCR buttons**
Use these buttons to control most Mitsubishi VCRs. (See your VCR's owner's guide for additional information). These buttons work with the VCR even when the TV/VCR/AUX switch (or VCR/TV switch) is set to "TV."

⑯ **picture-in-picture controls (CS-27305 only)**
Use these buttons to control the special picture-in-picture (PIP) function.

- **PIP button (PIP)** --- Press this button to see the reduced PIP image, to change the size of the image, or cancel it.
- **source button (SOURCE)** --- Press this button repeatedly to change the source of the reduced PIP image.
- **exchange button (EXCH)** --- Press this button to exchange the sources of the reduced PIP image and the main image.
- **position button (POSITION)** --- Press this button to move the position of the reduced PIP image.
- **pause button (PAUSE)** --- Press this button to freeze the reduced PIP image or to return it to a "live" picture. You can also use this button with the advanced PIP functions.

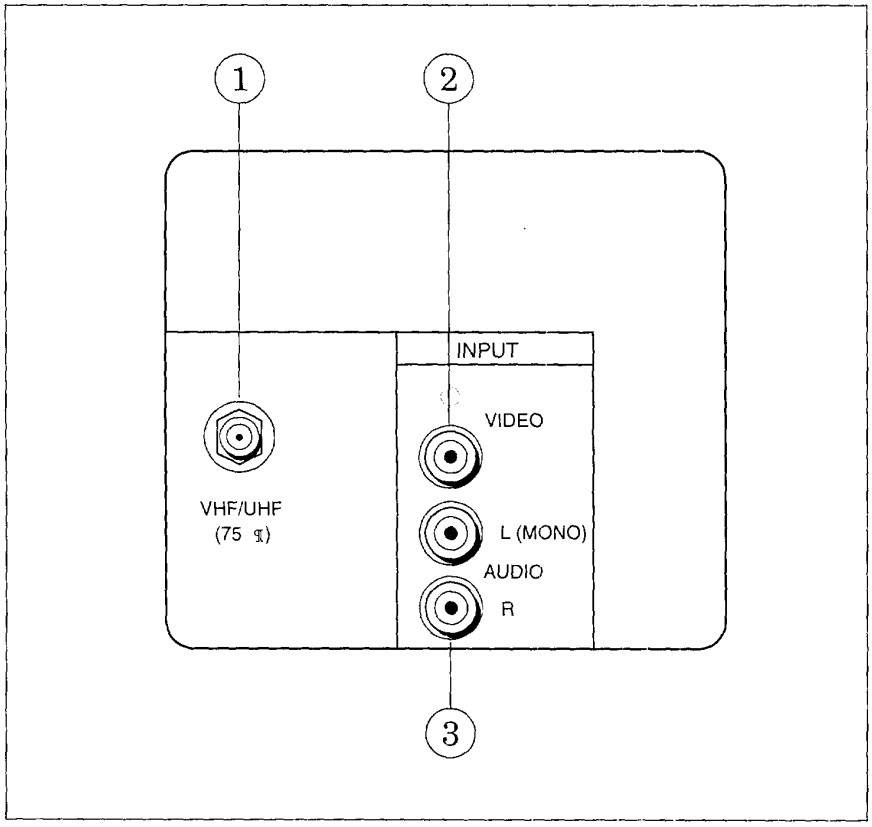
CHAPTER 2

Connecting Your TV

This chapter offers step-by-step instructions for completing the most common hook-ups. It contains the following sections:

- **Overview of the Back Panel**
- **Basic Connections**

◆ Overview of the Back Panel



① **antenna terminal (VHF/UHF)**
Use this terminal to connect cables or VHF/UHF antennas to the TV.

② **video input terminal**
Use this terminal to connect the video output from a standard VCR or another component to the TV.

③ **audio input terminals**
Use this terminal to connect the audio output from a VCR or other equipment.

◆ Basic Connections

This section describes the equipment and procedures needed for basic hook-ups. (For more complex hook-ups, contact your dealer or local cable company.) The connections explained in this section are:

- **TV+antenna or cable without a decoder box,**
- **TV+cable with a decoder box,**
- **TV+separate UHF and VHF antennas,**
- **TV+VCR+antenna or cable without a decoder box, and**
- **TV+VCR+cable with a decoder box.**

▷**Important:** You must connect a VCR to your TV to see two separate pictures when using the Picture-in-Picture (PIP) feature.

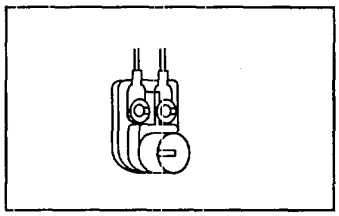
▶**Warning:** You should unplug your TV and any other components before connecting them.

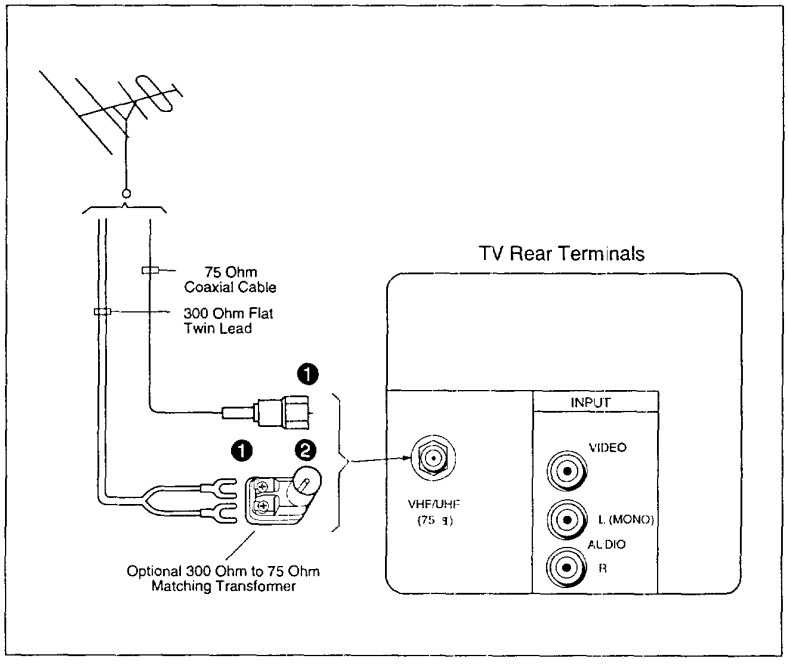
TV+antenna or cable without a decoder box

equipment you will need

If you have a standard 75-ohm coaxial cable, you will not need additional equipment. If your antenna has two leads (called flat twin leads), you will need:

- one 75-300 ohm transformer.





connecting a cable

❶ Push or screw the end of the cable onto the antenna terminal on the television.

connecting an antenna with flat twin leads

❶ Use a screwdriver to connect the leads to the transformer.

❷ Push or screw the transformer onto the antenna terminal on the television.

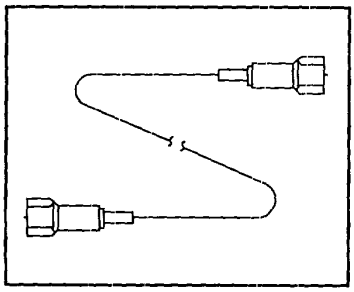
TV+cable with a decoder box

equipment you will need

Use this hook-up if you need a decoder box to descramble cable signals. With this hook-up, you will have to change channels on your cable box, and not on your TV. You should set up your remote control to operate your cable box (page 38).

To complete the hook-up, you'll need:

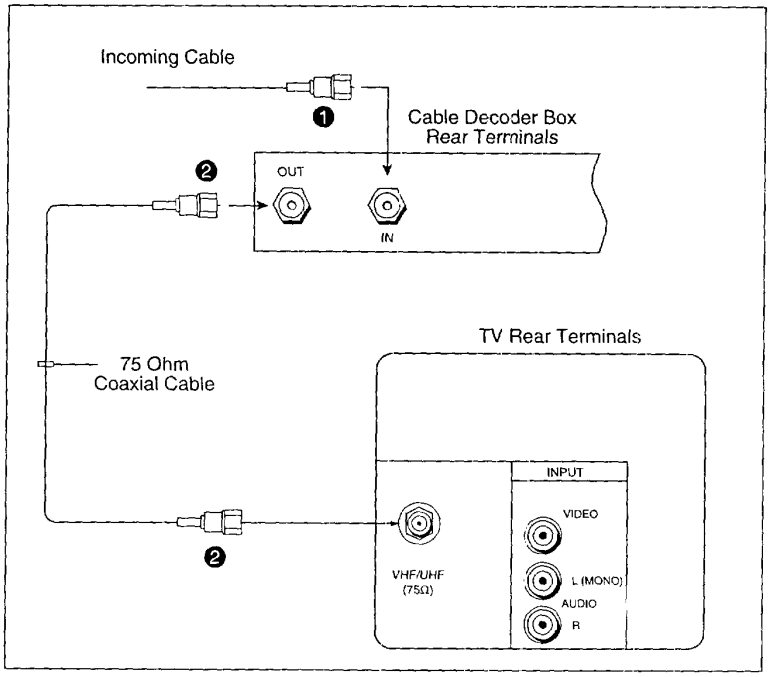
- one 75-ohm coaxial cable.



procedure

❶ Connect the incoming cable to the IN terminal on the decoder box.

❷ Connect a coaxial cable to the OUT terminal on the decoder box; connect the other end of this cable to the antenna terminal on the back of the TV.

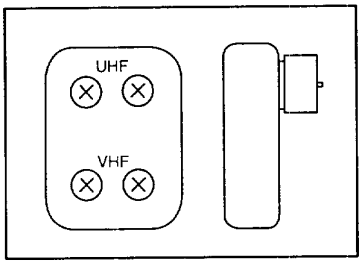


TV+ separate UHF and VHF antennas

equipment you will need

If UHF and VHF signals are brought into your home with two separate antennas, you'll need to combine the antennas before connecting them to the TV. To do this you will need a UHF/VHF combiner. (There are different combiners for different kinds of leads. Check with your local electronics store for the kind of combiner you need.)

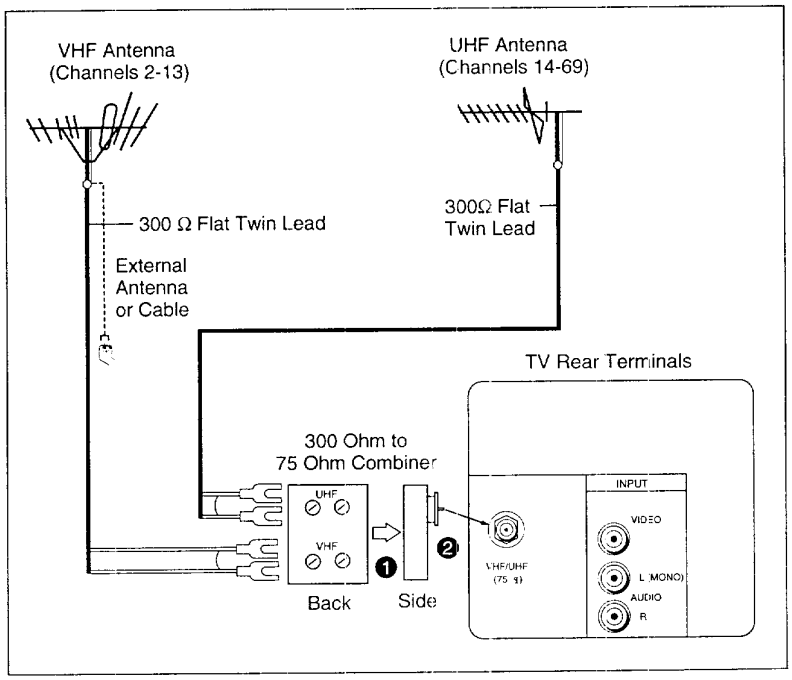
Pictured below is a standard combiner.



To connect separate UHF and VHF antennas to your television:

❶ Connect the UHF and VHF antenna leads to the appropriate terminals on the UHF/VHF combiner.

❷ Press the combiner onto the antenna terminal on the television.

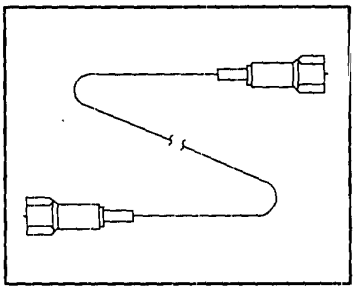


TV+VCR+antenna or cable without a decoder box

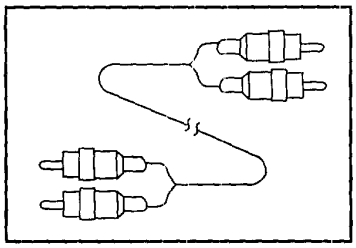
equipment you will need

You may want to connect a VCR along with your antennas or cable. To complete this hook-up, you may need the following equipment.

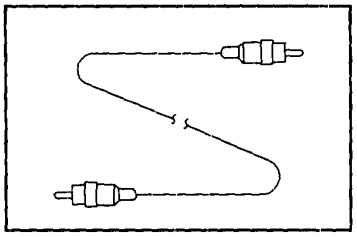
- one 75-ohm coaxial cable,



- one set of RCA pin-type audio cables,



- one RCA pin-type video cable.



TV+VCR+antenna or cable without a decoder box (cont.)

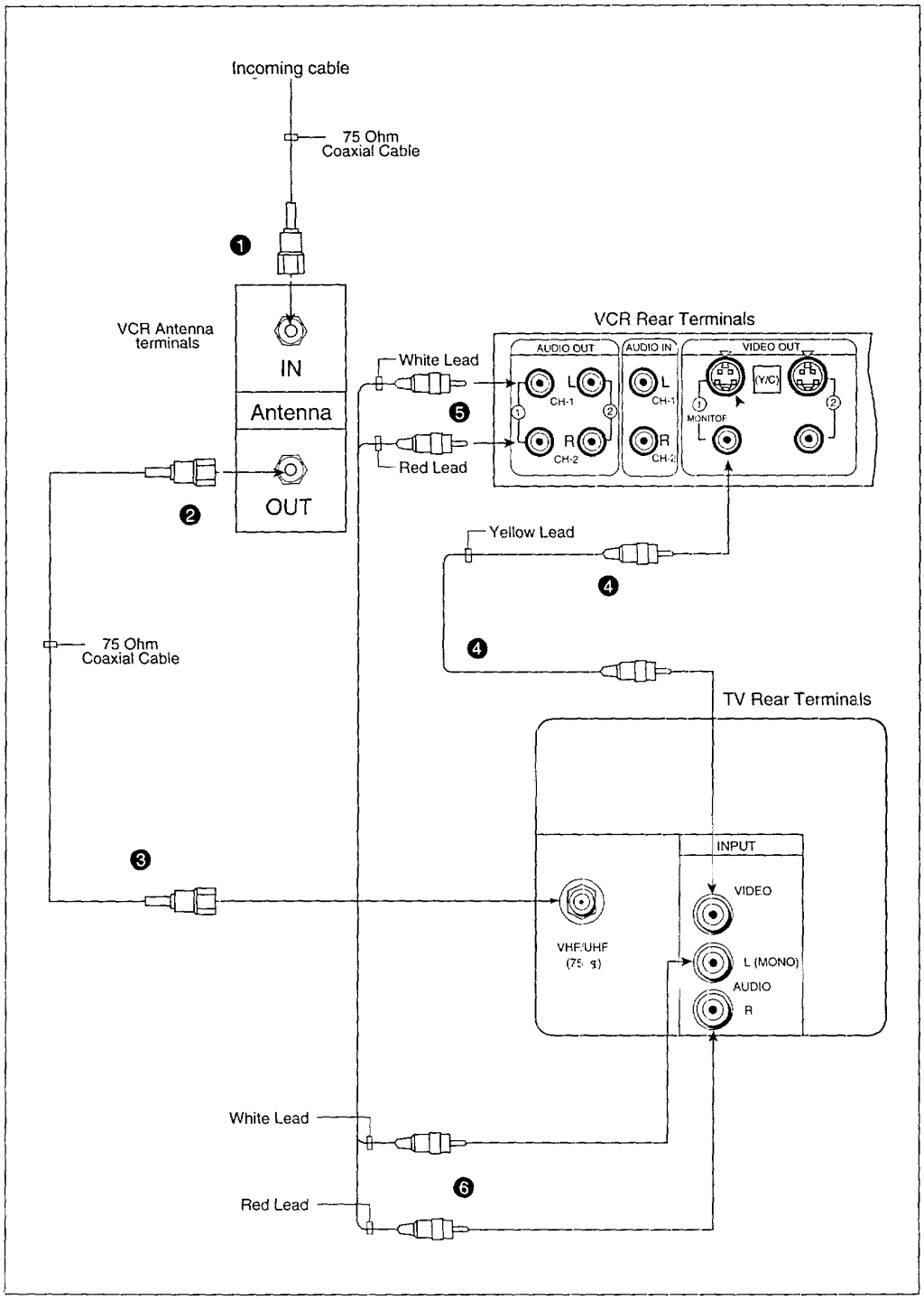
procedure

1. Connect the incoming cable or antenna to the ANTENNA IN terminal on the VCR.
2. Connect one end of a coaxial cable to the ANTENNA OUT terminal on the VCR.
3. Connect the other end of the coaxial cable to the antenna terminal on the TV.
4. Connect an RCA pin-type video cable to the VIDEO OUT terminal on the back of the VCR. Connect the other end of this cable to the VIDEO INPUT terminal on the back of the television.
5. Connect a set of RCA pin-type audio cables to the AUDIO OUT terminals on the back of the VCR. Use the red cable to connect the right (R) channel and the white cable for connecting the left (L) channel.
6. Connect the other ends of this cable to the AUDIO INPUT terminals on the back of the television.

▷**Important:** If your VCR is monaural (non-stereo), you will only connect a single RCA pin-type audio cable. Connect the cable to the VCR, then connect the other end to the L (LEFT) audio input on the back of the television.

▷**Important:** If your VCR has a video channel switch, set it to "OFF/AV." See your VCR's owner's guide for details.

7. Begin playing a tape on the VCR.
8. To view the VCR, select the external input source by using the INPUT button on the front control or on the remote control.


Incoming cable
75 Ohm
Coaxial Cable
1
VCR Antenna
terminals
IN
Antenna
OUT
2
VCR Rear Terminals
AUDIO OUT
AUDIO IN
VIDEO OUT
White Lead
5
Red Lead
CH-1
CH-2
(Y/C)
MONITOR
Yellow Lead
4
4
75 Ohm
Coaxial Cable
TV Rear Terminals
3
INPUT
VIDEO
L (MONO)
AUDIO
R
VHF/UHF
White Lead
6
Red Lead

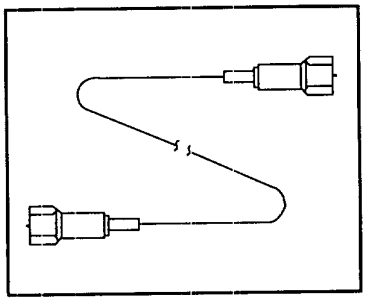
TV+VCR+cable with a decoder box

equipment you will need

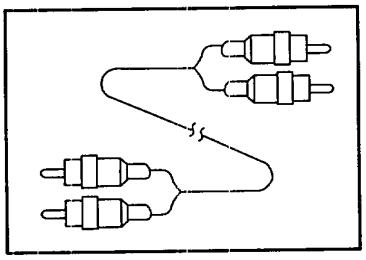
This hook-up will allow you to record scrambled channels. However, because your cable box controls the channels you can view, you will not be able to record one channel while you are watching another.

To complete the hook-up, you will need:

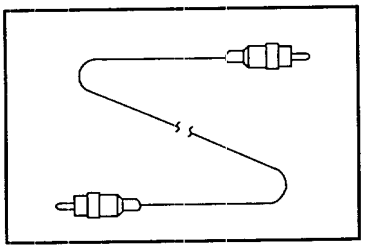
- two 75-ohm coaxial cables,



- one set of RCA pin-type audio cables, and



- one RCA pin-type video cable.



procedure
(Please see the illustration on the following page.)

❶ Connect the incoming cable to the IN terminal on the decoder box.

❷ Connect a coaxial cable to the OUT terminal on the back of the decoder box; connect the other end of this cable to the ANTENNA-IN terminal on the back of the VCR.

❸ Connect the second coaxial cable to the ANTENNA-OUT terminal on the back of the VCR. Connect the other end of this cable to the antenna terminal on the back of the TV.

❹ Connect an RCA pin-type video cable to the VIDEO OUT terminal on the back of the VCR. Connect the other end of this cable to the VIDEO INPUT terminal on the back of the television.

❺ Connect a set of RCA pin-type audio cables to the AUDIO OUT terminals on the back of the VCR. Use the red cable to connect the right (R) channel and the white cable for connecting the left (L) channel.

❻ Connect the other ends of this cable to the AUDIO INPUT terminals on the back of the television.

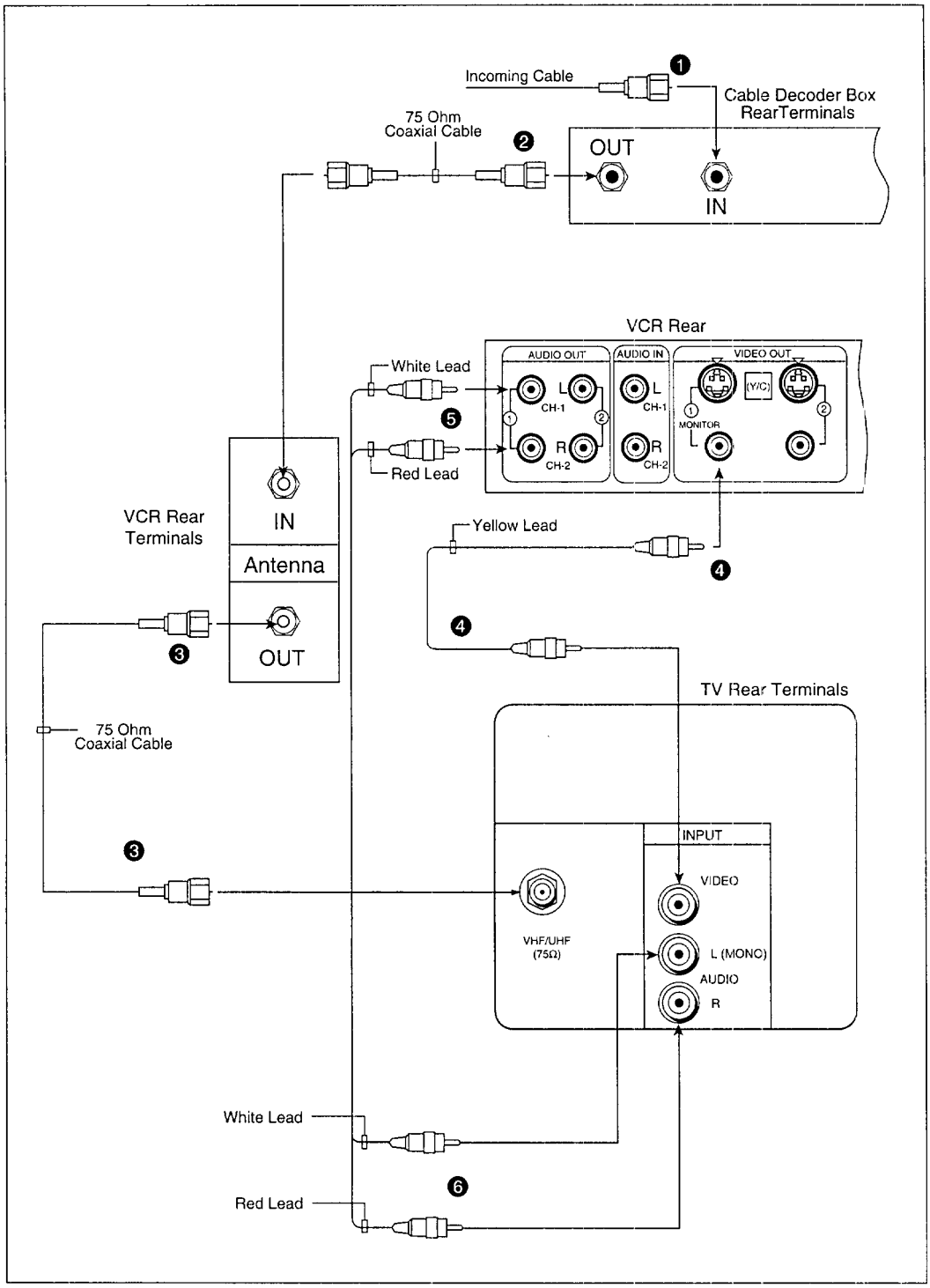
▷**Important:** If your VCR is monaural (non-stereo), you will only connect a single RCA pin-type audio cable. Connect the cable to the VCR, then connect the other end to the L (LEFT) audio input on the back of the television.

▷**Important:** If your VCR has a video channel switch, set it to "OFF/AV." See your VCR's owner's guide for details.

❼ Begin playing a tape on your VCR.

❽ To view the VCR, select the external input source by using the INPUT button on the front control or on the remote control.

TV+VCR+ cable with a decoder box (cont.)



CHAPTER 3

Operating Your TV

Now that your TV is connected to the cable, antennas, or external components, it's time to enjoy your equipment. This chapter will explain how to operate the TV, first focusing on functions that are basic and easy and then explaining some advanced features.

This chapter explains:

- **Getting Started**
- **Using the Advanced Features**

◆ Getting Started

This section is designed to get you started enjoying your new TV. If you follow these procedures one by one, you will soon have a picture and can begin discovering everything your television can do.

You'll find information on:

- **Setting up and using the remote control (CS-27305 only),**
- **Turning the TV on/off,**
- **Selecting the input source,**
- **Changing channels,**
- **Understanding the on-screen menus,**
- **Setting the clock,**
- **Memorizing channels,**
- **Adding / deleting channels,**
- **Renaming the input,**
- **Selecting the menu language,**
- **Using video mute,**
- **Using the power restore feature,**
- **Selecting the advanced PIP functions (CS-27305 only),**
- **Adjusting the sound,**
- **Adjusting the picture, and**
- **Using the closed caption decoder.**

Setting up and using the remote control (CS-27305 only)

Your TV comes with a remote control that not only operates your TV, but can operate many of the functions of your VCR and cable box as well.

The remote control is pre-set to operate Mitsubishi VCRs, but it can also operate VCRs from other manufacturers. If you have a VCR from another manufacturer, or if you have a cable box, you need to "set up" the remote control.

▷**Important:** Each layer (VCR or AUX) can be set for either a cable box or a VCR.

setting up the remote control to operate your VCR

❶ Turn off your VCR.

❷ Set the TV/VCR/AUX switch on the remote control to "VCR" or "AUX."

❸ While holding in the POWER button on the remote control, enter the code number listed in the chart below for your brand of VCR. Be sure to enter both digits of the code number. (If more than one code number is listed, try the first one. If that code does not work, try the next one until you find the correct code.)

If your VCR is this brand...	...enter this code	If your VCR is this brand...	...enter this code
Mitsubishi (A)	01	Philips	03, 10, 11
Mitsubishi (B)	02	Quasar	03
Canon	03	RCA	08, 13, 20
Emerson	04, 05	Sanyo	14
Funai	06	Scot	15
GE	03	Sharp	16
Goldstar	07	Sony	17, 18
Hitachi	08	Sylvania	03, 10, 11
JVC	09	Symphonic	06
Magnavox	03, 10, 11	Teknika	04, 06
Multitech	06	Toshiba	15
NEC	12	Totevision	07
Panasonic	03	Zenith	19
Philco	03, 10		

❹ Release the POWER button.

Setting up and using the remote control (CS-27305 only) (cont.)

❺ Press the POWER button again. Your VCR should turn on. If the VCR turns on, your remote control is now set to operate your VCR.

If your VCR does not turn on, repeat the instructions, trying each code number listed for your brand of VCR. If those numbers don't work, try each number listed in the chart, 01 through 20.

setting up the remote control to operate your cable box

❶ Turn off your cable box.

❷ Set the TV/VCR/AUX switch on the remote control to "AUX" or "VCR."

❸ While holding in the POWER button on the remote control, enter the code number listed in the chart below for your brand of cable box. (If more than one code number is listed, try the first one. If that code does not work, try the next one until you find the correct code.)

If your cable box is this brand...	...enter this code
Zenith	51
Hamlin	52, 53, 69
Jerrold	54, 57, 58, 59, 60, 85, 87
G.I.	55, 56
Oak	61, 62, 82
Pioneer	64, 65, 84
Scientific Atlanta	66, 86, 88, 89, 91, 92

If your cable box is this brand...	...enter this code
Tocom	67, 68, 72
Panasonic	63, 70
Macom	71
Philips	73, 74, 75, 76, 77, 93, 94, 95, 96, 97, 98, 99
Regency	79

❹ Release the POWER button.

❺ Press the POWER button again. Your cable box should turn on. If the cable box turns on, your remote control is now set to operate your cable box.

If your cable box does not turn on, repeat the instructions above, trying each number listed for your cable box brand. If those numbers don't work, try each number listed in the chart, 51 through 99.

▷**Important:** Sometimes manufacturers will change their products, or they may use more than one code. If this is the case, your remote may not be able to operate your VCR or cable box.

▷**Important:** When you replace the batteries in your remote control, the remote will return to its initial setting. The VCR layer will be set to control Mitsubishi VCRs that have their remote switches set to "A"; the AUX layer will be set to control Mitsubishi VCRs that have their remote switches set to "B". Follow the steps above to reset your remote control.

using your remote control to operate your VCR

After you have set up your remote control for your particular brand of VCR, you can use the remote to operate your VCR.

1. Set the TV/VCR/AUX switch on the remote control to "VCR" or "AUX."

2. Point the remote control at the VCR and press the desired buttons.

If you are using a Mitsubishi VCR, you will be able to use all of the buttons on the remote control to operate your VCR except for MUTE, VOLUME and the PIP function buttons, which will always operate the TV.

If you are using another brand of VCR, you can use the POWER, CHANNEL, REC, STOP, PAUSE, REW, PLAY and FF buttons to operate your VCR.

using your remote control to operate your cable box

After you have set up your remote control for your particular brand of cable box, you can use the remote to operate your cable box.

1. Set the TV/VCR/AUX switch on the remote control to "VCR" or "AUX."

2. Point the remote control at the cable box and press the desired buttons.

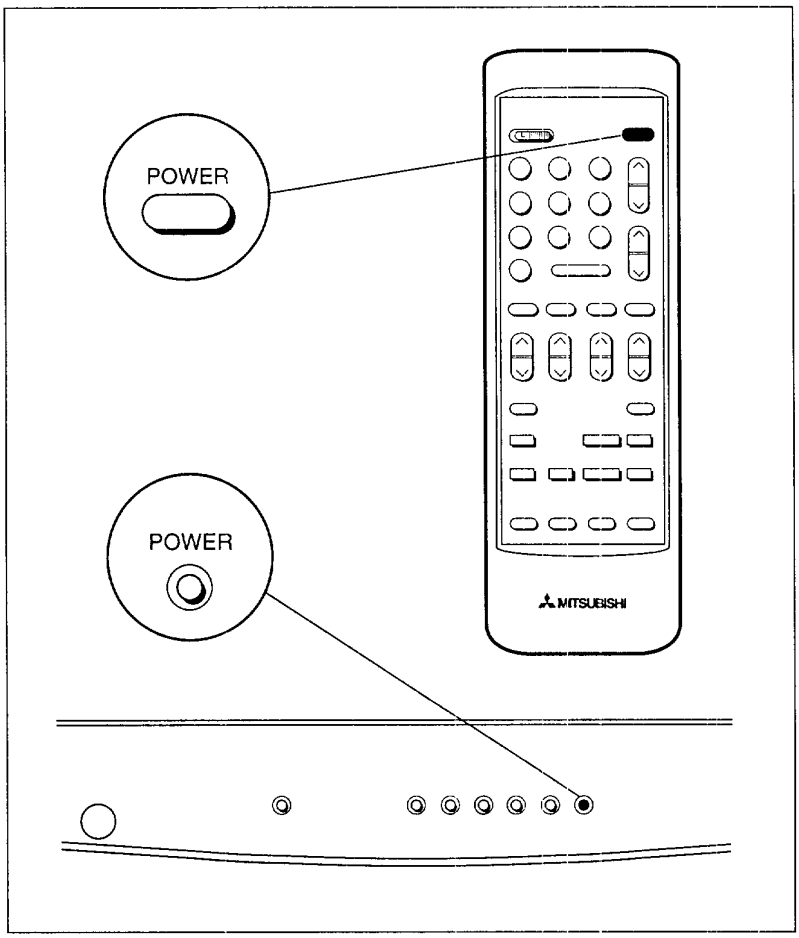
Only the POWER and CHANNEL buttons can be used when operating your cable box.

Turning the TV on/off

▷**Important:** Before using the remote control to operate the TV, set the TV/VCR/AUX switch (or VCR/TV switch) on the remote control to "TV."

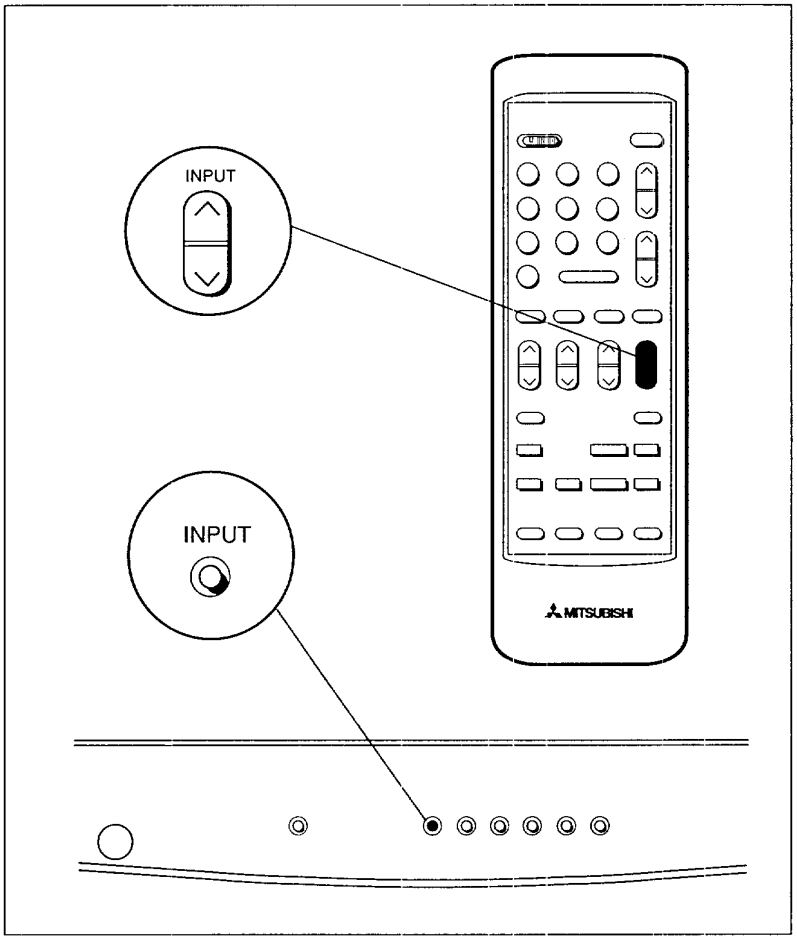
Use the POWER button on either the front control or the remote control to turn the TV on and off.

▷**Important:** Even when the power is turned off, there is a small current that continues to flow into the TV. This maintains any changes to the settings as well as operates the built-in clock and timing functions. Unplugging the set will erase these settings, requiring that you set them again. Unplug the TV only when it won't be used for a long time.



Selecting the input source

Press the input button (INPUT) on the front panel or on the remote control to select the input source you wish to view: TV or External (Ext).



Changing channels

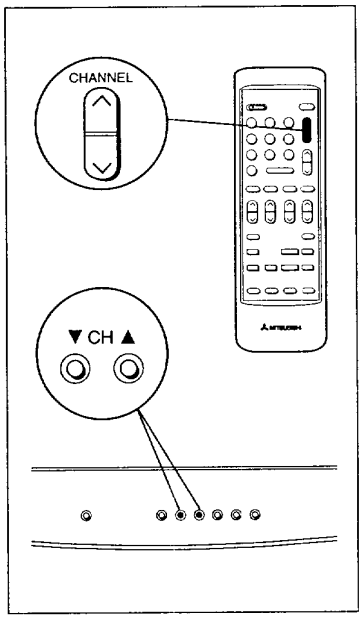
Your TV offers you four ways of changing channels once their numbers have been programmed into channel memory:

- selecting a channel sequentially using the automatic channel scan feature,
- directly accessing a channel by pressing the number buttons,
- using the quick view option to return immediately to the last channel viewed, and
- using the Super Quick View function to switch between channels on a user-chosen list.

To change channels faster, use either of the following procedures:

- Enter three digits for every channel number, using zeros where needed. (For example, enter "004" to view channel 4 and "028" to view channel 28.)
- Press the ENTER button after selecting the number of the channel. (For example, press "4" and "ENTER" to view channel 4.)

▷**Important:** Cable stations channel numbers 0 and greater than 126 are unassigned. TV stations 0, 1 and 70 through 999 are unassigned. If these channel numbers are pressed, the channel will not chang.

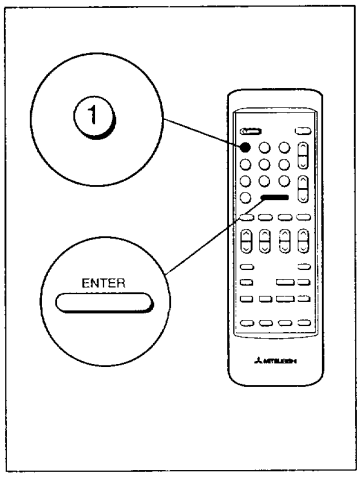


automatically scanning to the next available channel

To change channels:

❶ Press one of the channel controls (CH, CHANNEL) on the front panel or on the remote control. The TV will automatically tune to the next broadcasting station.

▷**Important:** The channel controls (CHANNEL) will work only after available channels have been programmed into memory. (See "Memorizing channels," page 48.)



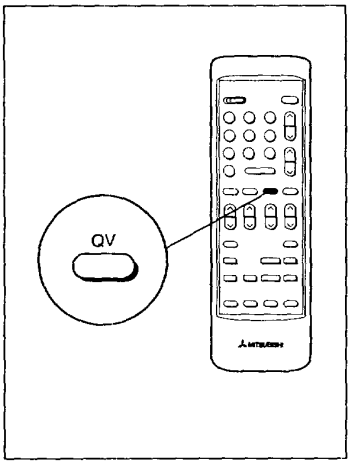
changing channels directly

To move directly to a particular channel without going through the programmed channels:

❶ Use the remote control to select the number of the channel you want to view.

❷ Press the ENTER button.

Changing channels (cont.)

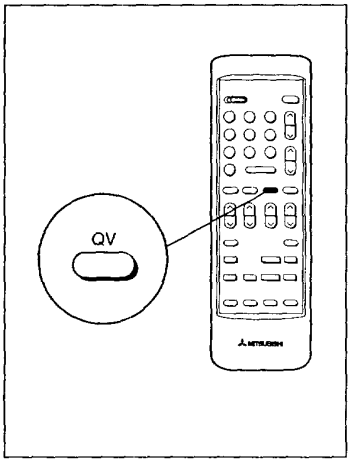


using the quick view option

To alternate between the current channel and the last one viewed:

1. Press the QV button on the remote control to switch to the last channel viewed.
2. Press the QV button again to return to the original channel.

▷**Important:** Quick View (QV) is not available when you have programmed channels into the Super Quick View (SQV) memory.



using the Super Quick View option

To view selected channels programmed into Super Quick View memory:

1. Enter the desired channels into Super Quick View memory. (See "Using the Super Quick View tuning," page 63.)
2. Press the QV button repeatedly to view the desired channels in sequence.

Understanding the on-screen menus

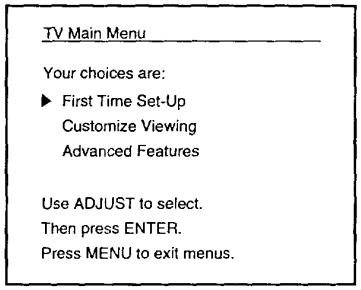
One of the distinctive features of this TV is an on-screen menu system that provides step-by-step instructions for using some of the TV's special capabilities.

When using any of the on-screen menus, please keep the following in mind:

- The on-screen menus will clear if no item is selected within 5 minutes.
- Unavailable menu items are indicated in light blue instead of the normal white letters.
- Some on-screen menu items must be set before other items are available. For example, "Set the timer" will only be available if "Set the clock" has been set.
- You can exit the on-screen menus any time by pressing the MENU button repeatedly. You will then return to regular TV viewing.

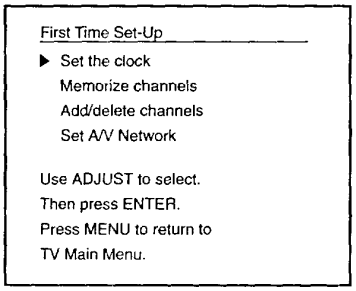
Setting the clock

Your TV contains an internal clock to indicate the current time. If there is a broadcaster in your area that is sending the current time along with its regular broadcast signal, then your TV can automatically set its clock with this signal. Otherwise, you can set the clock yourself.



❶ Press the MENU button on the remote control. The TV Main Menu will appear on the screen.

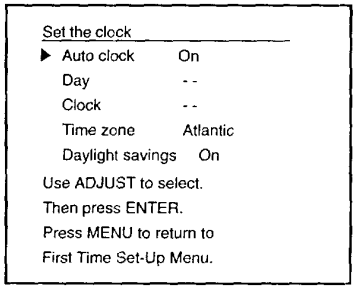
❷ Select "First Time Set-Up" using the ADJUST button; press the ENTER button.



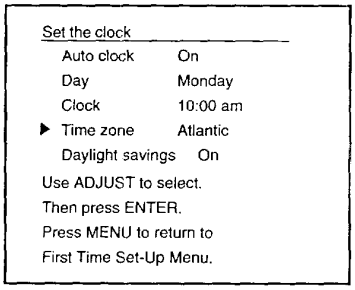
❸ You will see the "First Time Set-Up" screen. Select "Set the clock" using the ADJUST button; press the ENTER button.

❹ If you want your TV to set its clock automatically, use the ADJUST button to set "Auto clock" to "On"; if you want to set the clock yourself, set "Auto clock" to "Off."

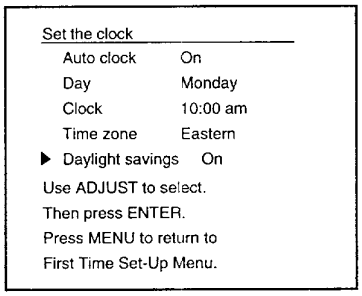
using automatic clock setting



- Set "Auto clock" to "On" using the ADJUST button and press the ENTER button.



- Select the "Time zone" you are in using the ADJUST button; press the ENTER button. The available time zones are: Atlantic, Eastern, Central, Mountain, Pacific, Alaska and Hawaii.

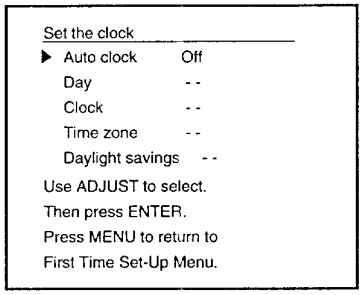


- If you follow daylight savings time, set "Daylight savings" to "On" with the ADJUST button. Your TV's clock will automatically adjust itself at the appropriate time. If you do not follow daylight savings, set it to "Off." Then, press the ENTER button.
- The automatic setting is completed, and the clock will start automatically. The screen will return to the "First Time Set-Up" menu.

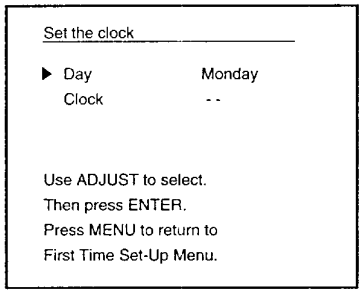
▷Important:

The TV can only set the clock automatically ("Auto clock") when there is a broadcaster in your area that is sending the current time via Extended Data Services (XDS). The clock will start just after the TV receives the time data.

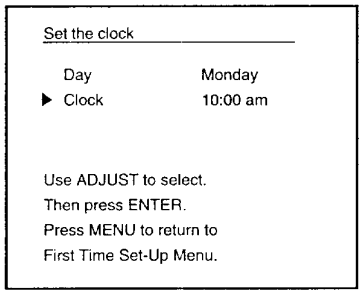
setting the clock yourself



- Set "Auto clock" to "Off" using the ADJUST button and press the ENTER button.



- Select the "Day" using the ADJUST button; press the ENTER button.

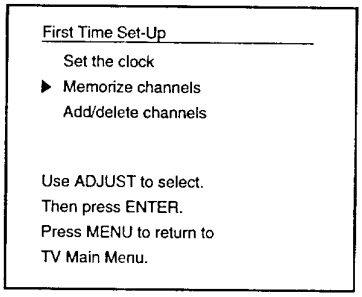


- Set the "Clock" using the ADJUST button.
- After setting "Day" & "Clock," press the ENTER button to start the clock.

Memorizing channels

Your TV automatically memorizes the channels you can receive. Once channels are memorized, you can scan through them using the channel control on the remote control and front panel.

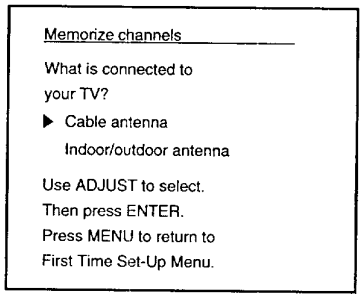
To memorize channels:



❶ Press the MENU button on the remote control. The TV Main Menu will appear on the screen.

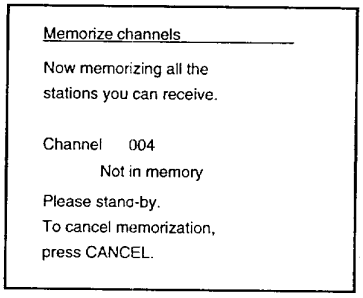
❷ Select "First Time Set-Up" using the ADJUST button; press the ENTER button.

❸ Select "Memorize channels" using the ADJUST button; press the ENTER button.



❹ The instructions for memorizing channels will appear.

Use the ADJUST button to choose the type of antenna you connected: Cable antenna or Indoor/outdoor antenna. Press the ENTER button.

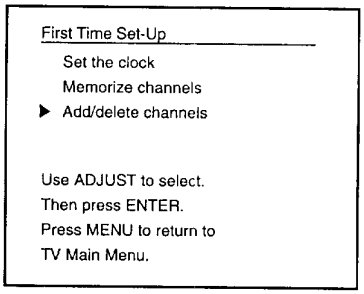


❺ You will see a message that states that channel memorization is in progress. A channel being added to memory will be labeled "In memory." Channels not being added are labeled "Not in memory." You can stop channel memorization at any time by pressing CANCEL.

▷**Important:** The channel controls (CHANNEL) will work only after channels have been programmed into memory. After memorizing, use the channel controls on the control panel or on the remote control to automatically advance to the next memorized channel. Use the number buttons to select individual channels.

Adding and deleting channels

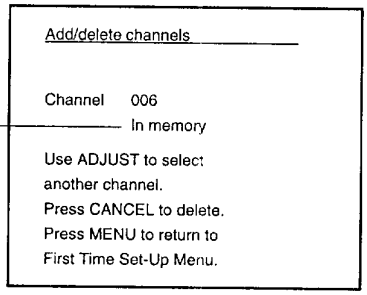
After all available channels have been programmed automatically, channels with weaker signals can be added or deleted with the following procedure.



❶ Press the MENU button on the remote control. The TV Main Menu will appear on the screen.

❷ Select "First Time Set-Up" using the ADJUST button; then, press the ENTER button.

❸ Select "Add/delete channels" using the ADJUST button; then, press the ENTER button.



Either "In memory" or "Not in memory" will appear.

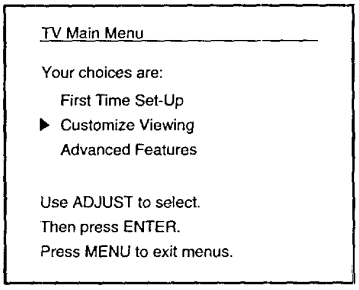
❹ The "Add/delete channels" screen will appear. Select the channel you would like to add or delete using the ADJUST button. (You can also use the CHANNEL buttons to select a channel.)

❺ If a channel is labeled "In memory," use the CANCEL button to remove it from memory. If a channel is labeled "Not in memory," use the ENTER button to add it to memory.

❻ When you are finished adding and deleting channels, press the menu button repeatedly to exit the menus and return to normal TV viewing.

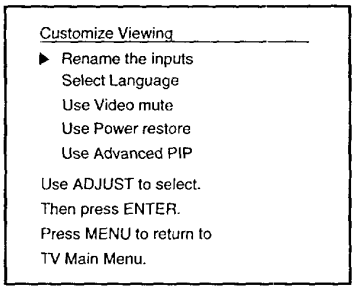
Renaming the input

This feature allows you to rename the external input. For exampl you might want to rename the input "VCR" or "DISC." After renai ing, the new name will appear on the on-screen display.

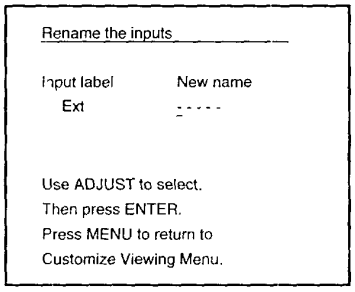


❶ Press the MENU button on the remote control. The TV Main Menu will appear on the screen

❷ Select "Customize Viewing" using the ADJUST button; then press the ENTER button.



❸ You will see the "Customize Viewing" screen. Select "Rename the inputs" using the ADJUST button; then, press the ENTER button.



❹ Set the new name using the ADJUST button and the ENTER button.

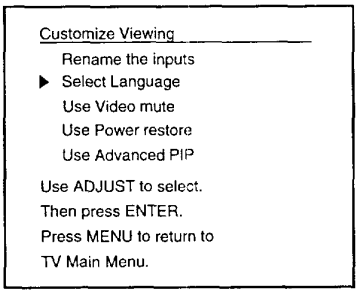
You can rename the inputs using letters (A~Z), numbers (0~9), or symbols (: / . , ( ) ! " # $ % & ' blank + ; < = > ? blank -).

When you press the CANCEL button while setting the name, the cursor will move one position to the left. You can clear the entire name by pressing CANCEL when the cursor is at the left-most position.

❺ After naming, press the MENU button; the screen will return to the "Customize Viewing" menu.

Selecting the menu language

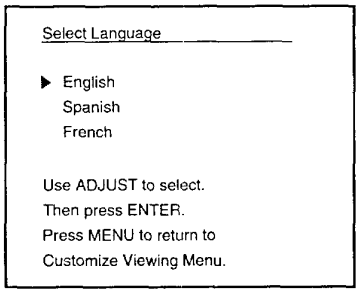
This TV allows you to display the on-screen menus in one of three languages: English, Spanish and French.



❶ Press the MENU button on the remote control. The TV Main Menu will appear on the screen.

❷ Select "Customize Viewing" using the ADJUST button; then, press the ENTER button.

❸ Select "Select Language" using the ADJUST button; then, press the ENTER button.

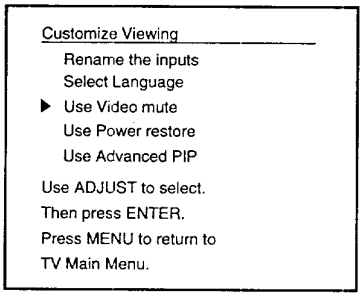


❹ Use the ADJUST button to select the language you want.

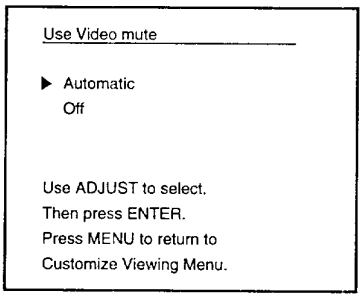
❺ Press the ENTER or MENU button to return to the "Customize Viewing" menu.

Using video mute

When you use the video mute function, your TV will display a blue screen whenever it is receiving a very weak TV signal or a weak signal from a VCR. If there is a time when you might wish to try viewing a weak signal, you can turn the video mute off.



1. Press the MENU button on the remote control. The TV Main Menu will appear on the screen.
2. Select "Customize Viewing" using the ADJUST button; then, press the ENTER button.
3. Select "Use Video mute" using the ADJUST button; then, press the ENTER button.

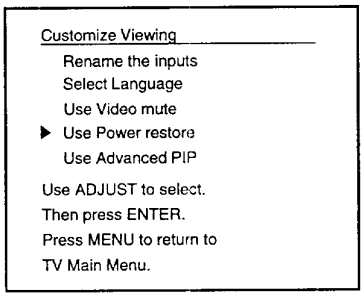


4. Using the ADJUST button, select "Automatic" to turn video mute on or "Off" to turn video mute off.
5. Press the ENTER or MENU button to return to the "Customize Viewing" menu.

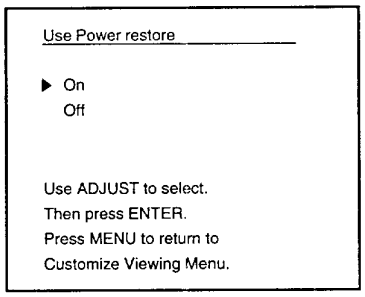
Using the power restore feature

When this feature is used, the TV will automatically turn on when electric current is supplied. This feature is useful when, for example, your TV is plugged into an outlet that you control with a wall switch.

To use the power restore feature:



1. Press the MENU button on the remote control. The Main Menu will appear on the screen.
2. Select "Customize Viewing" using the ADJUST button; then, press the ENTER button.
3. Select "Use Power restore" using the ADJUST button; then, press the ENTER button.



4. The "Use Power restore" screen will appear.

   Use the ADJUST button to turn the power restore feature on or off.
5. Press the ENTER or MENU button to return to the "Customize Viewing" menu.

▷**Important:** In order for this feature to work, you must leave your TV turned on when you switch off the electric current.

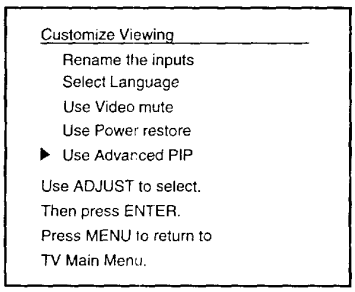
▷**Important:** Even when the power restore feature is used, turning off power to the set will require you to reset functions such as the built-in clock and timer functions.

Selecting the advanced PIP functions (CS-27305 only)

When you are using the PIP feature, there are special functions you can use. Before using these advanced functions, you need to select one in the menu. These advanced functions are:

- TV Still,
- Snap-shot, or
- Replay.

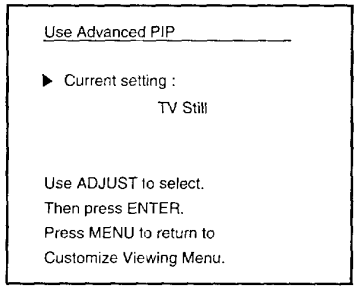
In "TV Still," the PIP image switches between still and moving. In "Snap-shot," you can view and move several frozen PIP images. In "Replay," you can view still PIP images in sequence for a "strobe" animation effect. (See "Using the Picture-in-Picture (PIP) Mode," pages 74-76.)



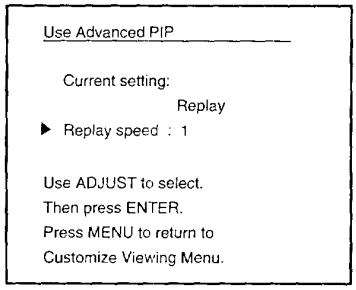
❶ Press the MENU button on the remote control. The TV Main Menu will appear on the screen.

❷ Select "Customize Viewing" using the ADJUST button; then, press the ENTER button.

❸ Select "Use Advanced PIP" using the ADJUST button; then, press the ENTER button.



❹ Use the ADJUST buttons to select the advanced feature you would like to use: TV Still, Snap-shot, or Replay. Then, press ENTER.



- When you select "Replay," the next option will be "Replay speed." Use the ADJUST button to set the replay speed from 1 to 9. (1=short interval and 9=long interval.) Press ENTER. The main image will replay in sets of three in a "strobe" animation effect at the speed you selected.

❺ Press the MENU button to return to the "Customize Viewing" menu.

Adjusting the sound

You can customize all of your television's sound functions using a pair of buttons: you select a function with the AUDIO button, then you adjust the function with the ADJUST button. You use the ADJUST button to:

- select a position (e.g., stereo),
- increase or decrease the function (e.g., bass), or
- shift from one end of a scale to the other (e.g., balance).

When you adjust a function, an on-screen display will indicate the function and level you've selected.

what you will adjust

"Listen to: Stereo/SAP/Mono" allows you to change the audio reception mode to stereo, separate audio programming (S.A.P.), or monaural (mono), depending on the type of broadcast you are receiving. As you select the reception mode, remember the following:

- The "Stereo" setting allows you to receive both mono and stereo broadcasts.

- The separate audio programming ("S.A.P.") setting offers you the option of listening to either of two separate audio programs. For example, a station may broadcast news, weather, or a foreign language soundtrack on the S.A.P. program (in addition to its standard soundtrack).

- The "Mono" setting reduces unwanted background noise when a stereo broadcast is coming in weak. When you use the "Mono" setting, you will hear the broadcast in monaural even when the broadcast signal is in stereo.

▷**Important:** An on-screen display appears when programs are broadcast in stereo or when separate audio programming (S.A.P.) is available.

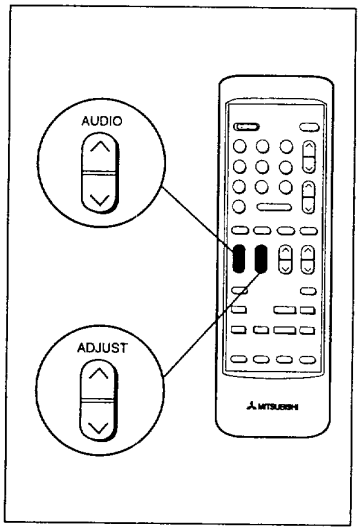
"Bass" controls the volume of low frequency sound.

"Treble" controls the volume of high frequency sound.

"Balance" adjusts the level of sound between the left and right speakers.

"Audio expansion: On/Off" creates a stereo effect with non-stereo stations or non-stereo external sources.

Adjusting the sound (cont.)



adjusting the audio functions

1. Use the AUDIO button on the remote control to select one of the functions.
2. Use the ADJUST button on the remote control to adjust the function.

Adjusting the picture

You can customize all of your television's picture functions using a pair of buttons: you select a function with the VIDEO button, then you adjust the function with the ADJUST button. You use the ADJUST button to:

- shift from one end of a scale to the other (e.g., tint),
- increase or decrease the function (e.g., color),
- select a position (e.g., closed captioning).

When you adjust a function, an on-screen display will indicate the function and level you've selected.

what you will adjust

"Tint" adjusts the proportion of red to green that determines the delicate tones of color.

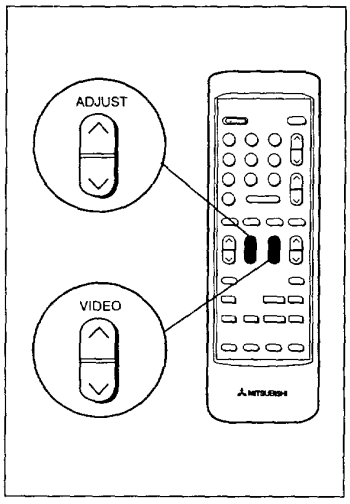
"Color" determines the intensity of the color.

"Contrast" controls the level of white-to-black in the picture.

"Brightness" controls the light level of the image on screen.

"Sharpness" adjusts the detail and clarity of the picture.

"CC (closed captioning): 1/2/3/4/Text 1/Text 2/Text 3/Text 4/When muting/Off" is used to display the text information on the TV screen. For details, see "Using the closed caption decoder," page 58.



adjusting the video functions

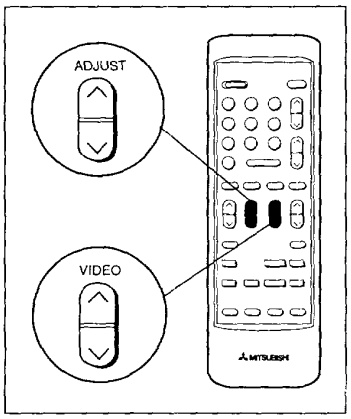
1. Use the VIDEO button on the remote control to select one of the functions.
2. Use the ADJUST button on the remote control to adjust the function.

Using the closed caption decoder

Many broadcasters now supply closed captioning information along with their regular broadcasts.

There are two types of captioning that broadcasters can send: "standard" and "text." Standard captioning is related to the program that is being shown and usually follows the dialogue of the characters on-screen. Text captioning does not relate to the program being shown, often containing information such as weather or news, and it can block your view of the program you are watching.

Your TV can decode four different "standard captioning" signals and four different "text captioning" signals on each TV channel.



To use the closed caption decoder:

1. Press the VIDEO button on the remote control until the closed captioning ([CC]) display appears on the screen.
2. Press the ADJUST button on the remote control to select the captioning signal you wish to display.

You can choose to display one of four "standard captioning" signals (indicated by [CC] and a number), to display one of four "text captioning" signals (indicated by the word "Text" and a number), to display captions "when muting," or to turn the captions off.

If you select "When muting," the standard captioning signal ([CC] 1) will appear whenever you use the MUTE button.

uses for closed captioning

Closed captioning can be used in many ways, such as:

- helping children learn to read,
- learning a foreign language, and
- using the television without disturbing others.

▷**Important:** If you cannot display any captions on the screen, please keep in mind that not all broadcasters, video tapes, or laserdiscs supply closed caption signals.

Closed captions might not appear if you are playing a video tape that is worn or old.

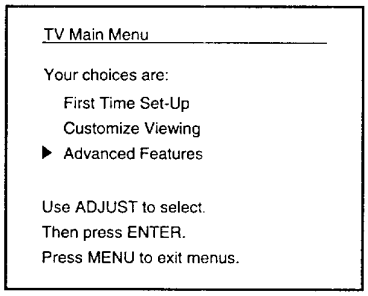
◆ Using the Advanced Features

This section explains how to use some of the more advanced functions. You'll learn:

- **Setting the timer,**
- **Using the parental lock, and**
- **Using the Super Quick View tuning.**

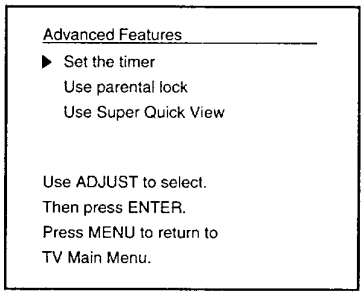
Setting the timer

This special feature allows you to program the TV to turn on automatically at a preset time. To set the timer:

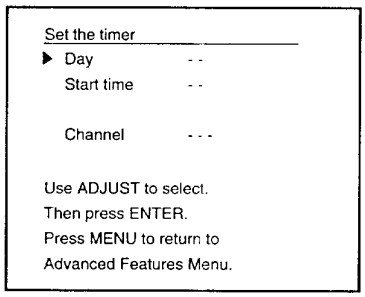


❶ Press the MENU button on the remote control. The Main Menu will appear on the screen.

❷ Select "Advanced Features" using the ADJUST button; then, press the ENTER button.



❸ You will see the "Advanced Features" screen. Select "Set the timer" using the ADJUST button; then, press the ENTER button.



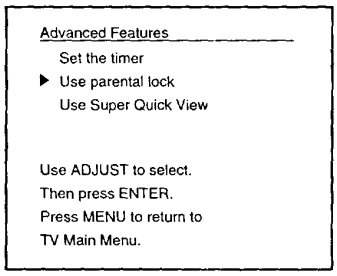
❹ Use the ADJUST and ENTER buttons to set the "Day," "Start time," and "Channel."

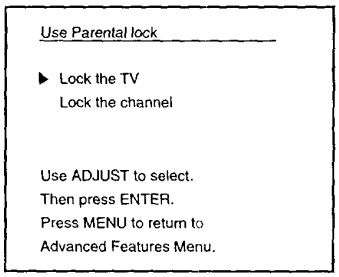
When you press the CANCEL button while setting the timer, the cursor will move to the previous item. To clear the timer, press the CANCEL button with the cursor at the "Day" position.

▷**Important:** When the timer turns the TV on, the display will flash as a warning. If you do not press any TV function button for about 5 minutes, the TV will automatically turn off. Press a TV function button (such as the display button) to keep the TV on and turn off the flashing display.

Using the parental lock

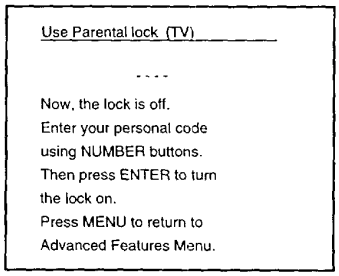
This special feature locks the entire TV or one particular channel to prevent others from watching it.





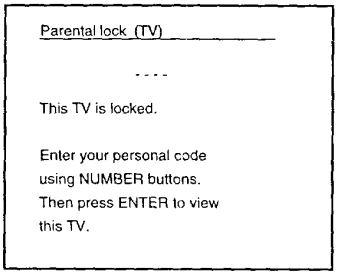
1. Press the MENU button on the remote control. The Main Menu will appear on the screen.
2. Select "Advanced Features" using the ADJUST button; then, press the ENTER button.
3. Select "Use parental lock" using the ADJUST button; then, press the ENTER button.
4. Select "Lock the TV" or "Lock the channel" using the ADJUST button; then, press the ENTER button.

▷**Important:** If you turn the parental lock on, you cannot use the timer, and you will see a lock message when you try to use a locked TV or locked channel.


Use Parental lock (TV)
Now, the lock is off.
Enter your personal code
using NUMBER buttons.
Then press ENTER to turn
the lock on.
Press MENU to return to
Advanced Features Menu.

locking the TV

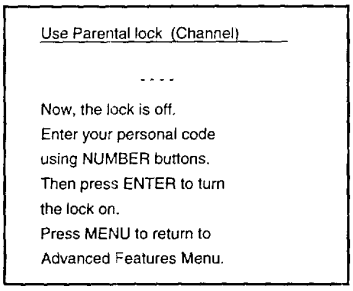
- The message for locking the TV will appear.
- Enter a four-digit secret code using the number buttons (0–9); then, press the ENTER button.



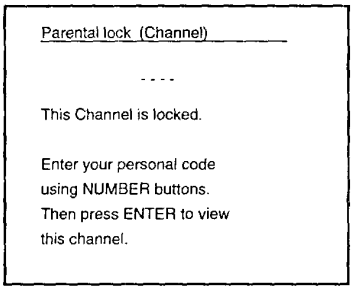
- When you set "Lock the TV" to "on," you will see a message the next time you turn the television on, asking you to enter your secret code. If you don't enter the correct code within five minutes, the TV will turn off.

Using the parental lock (cont.)

locking the channel

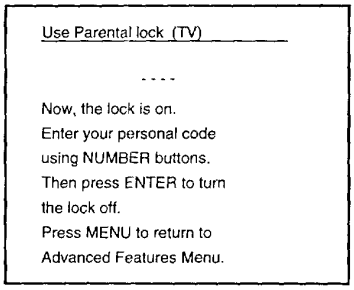

Use Parental lock (Channel)
- - - -
Now, the lock is off.
Enter your personal code
using NUMBER buttons.
Then press ENTER to turn
the lock on.
Press MENU to return to
Advanced Features Menu.

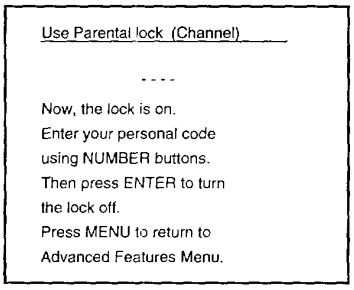
- The message for locking the channel will appear.
- Enter a four-digit secret code using the number buttons (0–9); then, press the ENTER button.



- The next time you try to select a locked channel, you will see a message asking you to enter your secret code.
- To view an unlocked channel, press the channel buttons.

canceling parental lock


Use Parental lock (TV)
- - - -
Now, the lock is on.
Enter your personal code
using NUMBER buttons.
Then press ENTER to turn
the lock off.
Press MENU to return to
Advanced Features Menu.


Use Parental lock (Channel)
- - - -
Now, the lock is on.
Enter your personal code
using NUMBER buttons.
Then press ENTER to turn
the lock off.
Press MENU to return to
Advanced Features Menu.

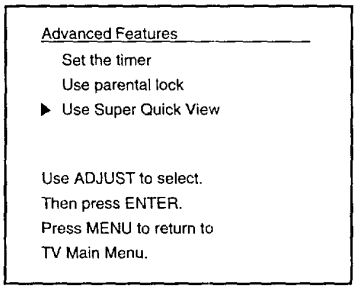
1. Press the MENU button on the remote control. The Main Menu will appear on the screen.
2. Select "Advanced Features" using the ADJUST button; then, press the ENTER button.
3. Select "Use parental lock" using the ADJUST button; then, press the ENTER button.
4. Using the ADJUST button, select the lock you want to cancel; then, press the ENTER button.
5. Enter the four digits of your secret code using the number buttons (0-9); then, press ENTER.
6. Press the MENU button to return to the "Advanced Features" menu.

▷**Important:** If you forget your four-digit code, please see page 83.

Using the Super Quick View tuning

Super-Quick-View allows you to cycle through a list of up to ten channels with the QV button. You can add channels to and remove channels from the list using the menus system or by using the ENTER/CANCEL buttons.

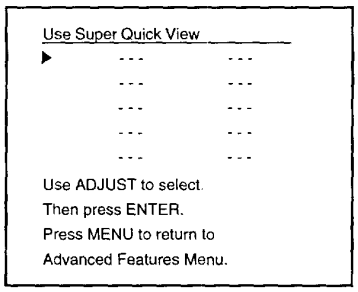
using the menus to change the Super Quick View memory



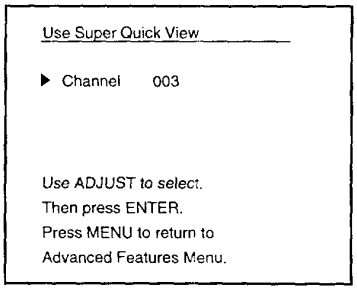
❶ Press the MENU button on the remote control. The Main Menu will appear on the screen.

❷ Select "Advanced Features" using the ADJUST button; then, press the ENTER button.

❸ Select "Use Super Quick View" using the ADJUST button; then, press the ENTER button.



❹ Select a position to store a TV channel using the ADJUST button; then, press the ENTER button.



❺ Use the ADJUST button, channel control, or number buttons to select the channel you want to add; then, press the ENTER button.

❻ Repeat steps ❹ and ❺ to add up to ten channels to the Super Quick View memory. You can clear each setting by pressing the CANCEL button.

❼ Press the MENU button to return to the "Advanced Features" menu.

Using the Super Quick View tuning (cont.)

using the ENTER/CANCEL buttons to change the Super Quick View memory

To enter a channel into the Super Quick View memory:

❶ Use the channel control (CHANNEL) to select the channel you want to add to the Super Quick View memory.

❷ While the channel number is still displayed on the screen, press ENTER. Hold down the ENTER button until the letters "SQV" appear on the screen.

❸ Repeat steps ❶ – ❷ until to add up to ten channels to the Super Quick View memory.

❹ Press the quick view (QV) button to cycle through the channels you have memorized.

▷**Important:** You can only memorize up to ten channels in the Super Quick View memory. If you try to memorize more than ten, the letters "SQV" will flash, indicating that the memory is full. You must delete a channel from memory before adding a new one.

To remove a channel from the super quick view tuning:

❶ Use the channel control (CHANNEL) to select the channel you want to remove from the Super Quick View memory.

❷ While the channel number is still displayed on the screen, press CANCEL. Hold down the CANCEL button until the letters "SQV" disappear from under the channel number. The channel will be removed from the Super Quick View memory.

▷**Important:** When there are channels programmed into the Super Quick View (SQV) memory, the Quick View (QV) feature is not available.

▷**Important:** You can display the present channel number by pressing the DISPLAY button. This will allow you to add or remove a channel from Super Quick View memory.

▷**Important:** You cannot use the ENTER and CANCEL buttons to change the SQV memory when you are watching an external source (such as VCR.)

CHAPTER 4

Using the Special Features

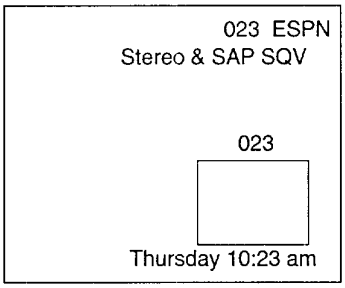
In addition to the basic and advanced functions explained in the previous chapter, this TV offers the user several special features not generally available on other brand TVs. This chapter will explain how to use these distinctive features. It contains the following topics:

- **Understanding the On-Screen Displays**
- **Using the Off-Timer**
- **Using the Picture-in-Picture (PIP) Mode (CS-27305 only)**

◆ Understanding the On-Screen Displays

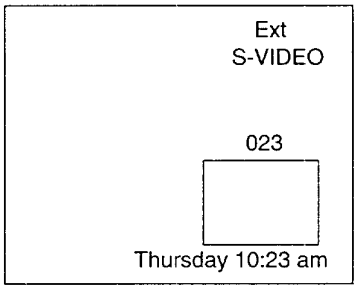
Your TV provides an on-screen summary of the current settings for the TV or cable channels, as well as the information related to Extended Data Services (XDS). XDS allows broadcasters to supply you with the current time, channel information (such as call letters and the network name), and program information (such as the program name and program description). To view this information, press the display button (DISP) on the remote control to cycle through all the information.

The first time you press DISP (if the antenna terminal is the TV's main source), you will see:



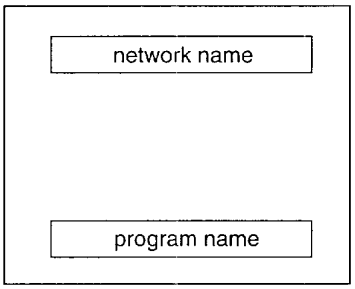
This screen can show:
- the channel number 23,
- the call letters for this channel,
- that this channel is broadcasting a stereo and SAP signal
- that this channel is programmed into Super Quick View memory,
- the PIP input source (available only on the CS-27305),
- the current day of the week, and
- the time.

The first time you press DISP (if the external input is the TV's main source), you will see:



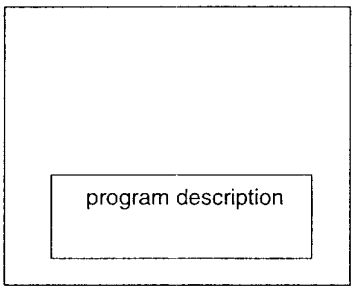
This screen can show:
- the external input source (or input name),
- the PIP input source (available only on the CS-27305),
- the current day of the week, and
- the time.

The second time you press DISP, you will see:



This screen can show:
- the network name and program name, if the broadcaster is supplying that information via XDS.

The third time you press DISP, you will see:



This screen can show:
- the program description, if the broadcaster is supplying that information via XDS.

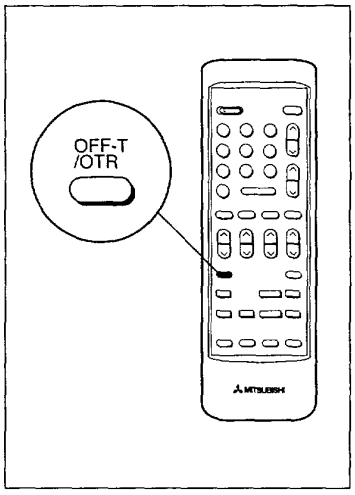
▷**Important:** If the broadcaster is not supplying information via XDS, then an error message will appear ("No name available', "No description available"). Also, the "call letters" will not appear.

◆ Using the Off-Timer

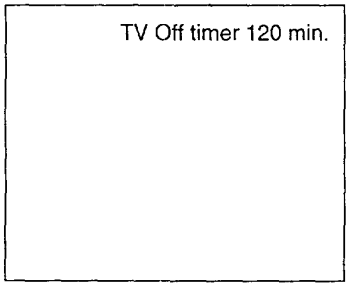
This special function allows you to set the TV to turn off automatically. You can set the TV to turn off after a period of time ranging from 10 to 120 minutes (in 10 minutes intervals). In this section you'll learn:

- **Setting the off-timer, and**
- **Changing or canceling the off-timer.**

Setting the off-timer



❶ Press the off-timer button (OFF-T/OTR) on the remote control.

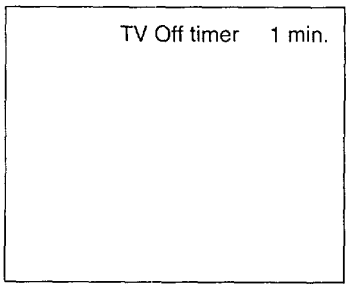


❷ Select how long you want the TV to stay on by repeatedly pressing the off-timer button (OFF-T/OTR). The time will decrease in 10 minute intervals each time you press the button.

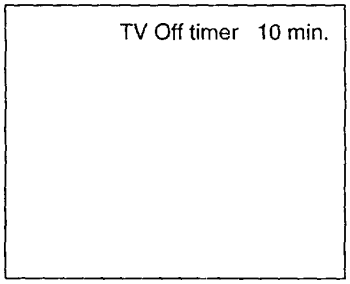
❸ When you've reached the time you want, stop pressing the off-timer button. After a few seconds, the timer will disappear from the screen.

❹ If you later want to view the amount of timer left in the timer, press the off-timer button (OFF-T/OTR) once. The on-screen display will read "off-timer" and show the remaining time.

▷**Important:** During the last minute before the TV is set to turn off, "Off-timer 1 min." will flash in red to remind you that the off-timer is set.



Changing or canceling the off-timer



❶ Press the off-timer button (OFF-T/OTR) on the remote control. An on-screen display will indicate the amount of time remaining until the TV will turn off.

❷ Continue pressing the off-timer button (OFF-T/OTR) repeatedly to change the remaining time or cancel the off-timer. The off-timer is canceled when "– – –" appears instead of the remaining time.

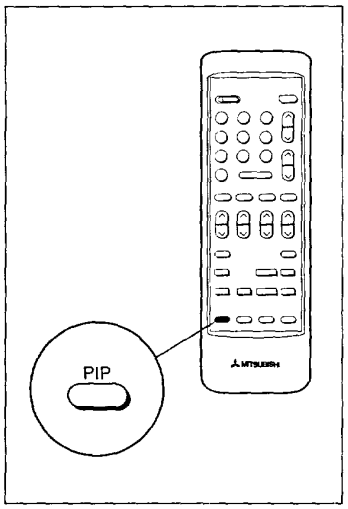
◆ Using the Picture-in-Picture (PIP) Mode (CS-27305 only)

One of the special features of this TV is the picture-in-picture (PIP) mode, which allows you to view two different sources at the same time. In this section you'll learn:

- **Selecting the PIP image,**
- **Selecting the PIP source,**
- **Exchanging the PIP image and the main image,**
- **Moving the PIP image,**
- **Freezing the PIP image,**
- **Using the Snap-shot feature, and**
- **Using the Replay feature.**

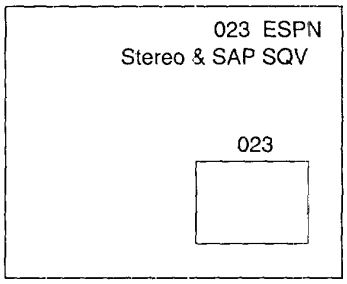
▷**Important:** You must have a VCR connected to the TV to see two different live action pictures when using PIP.

Selecting the PIP image

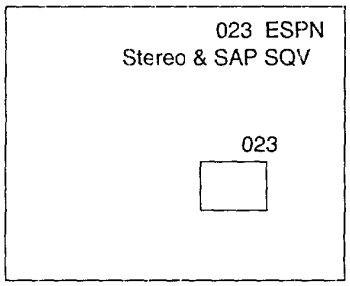


❶ Select the number of the TV channel you want to view by using the channel control (CHANNEL).

❷ Press the PIP button. A reduced image will appear in the bottom right corner of the screen.



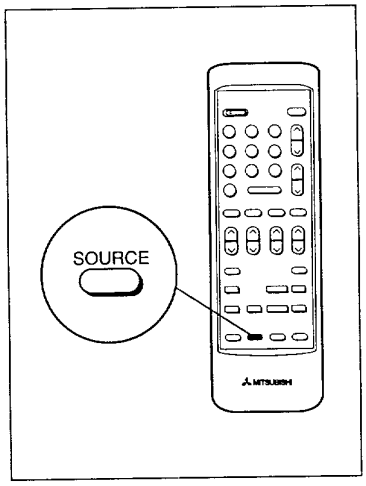
❸ Press PIP again; the PIP image will become smaller.



❹ Press the PIP button once again to cancel the PIP image.

▷**Important:** When the main image is black and white, the PIP image will also appear in black and white even if the PIP source is in color.

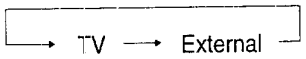
Selecting the PIP source



❶ Turn your VCR on and select a channel on the VCR that is different than the channel you see on your TV screen.

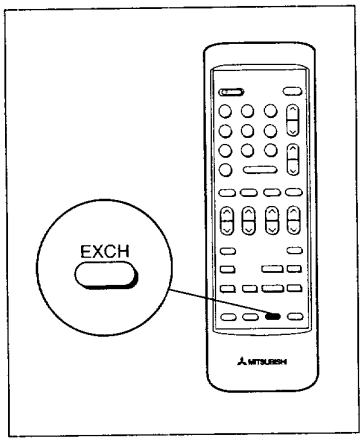
❷ Press the source button (SOURCE) on the remote control repeatedly to select the source of the PIP image: TV or External.

❸ The PIP image will change as follows.

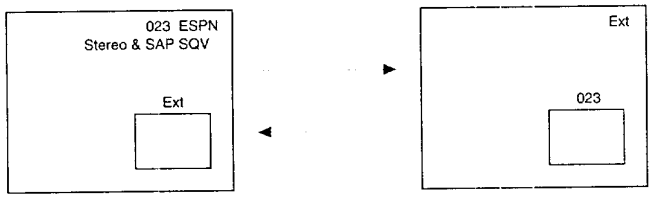


▷**Important:** To change the main image while you are in PIP mode, press the input button (INPUT) on the control panel or on the remote control.

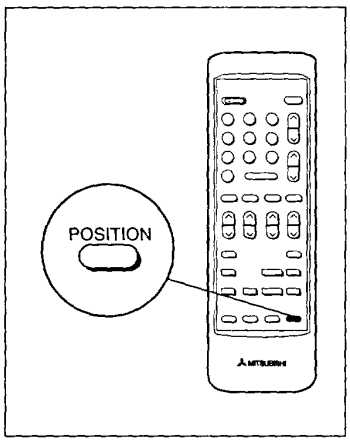
Exchanging the PIP image and the main image



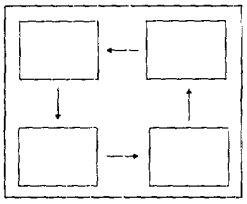
Press the exchange (EXCH) button to exchange the sources of the main image and the reduced image.



Moving the PIP image

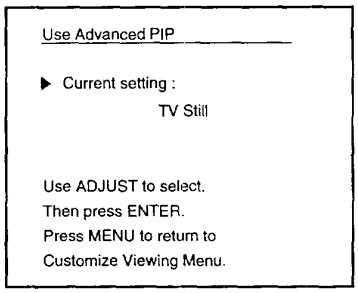


Press the POSITION button repeatedly. The reduced image will move from corner to corner in a counterclockwise order.



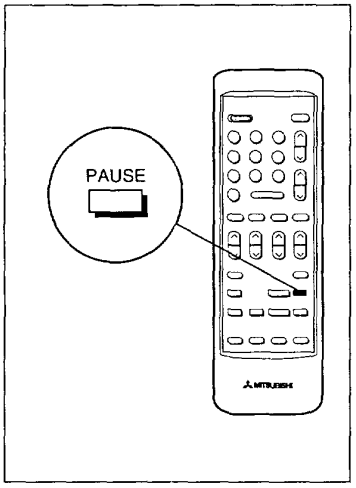
▷**Important:** If you change the position of the PIP image, then turn off PIP, the PIP image will reappear in the new position the next time you turn on PIP.

Freezing the PIP image



❶ Select "Use Advanced PIP" in the "Customize Viewing" menu; then, set the current setting to "TV Still." (See "Selecting the advanced PIP functions," page 54.)

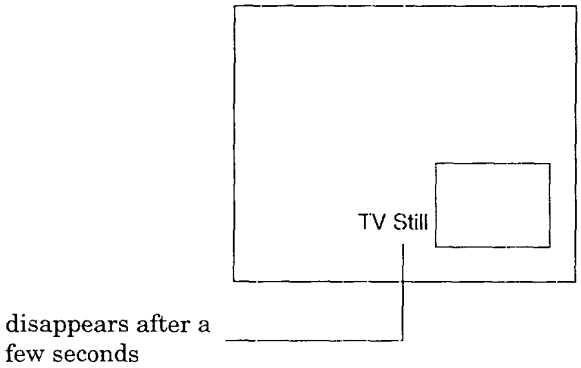
❷ Use the MENU button to return to the normal picture.



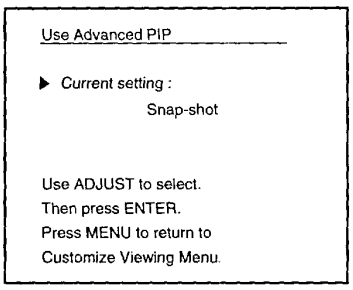
❸ Press the pause button (PAUSE) to freeze the PIP image on the screen.

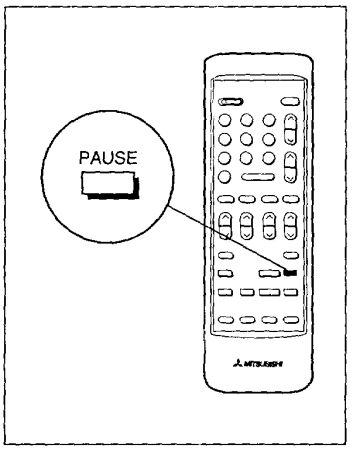
❹ Press the PAUSE button again to return the image to a "live" picture.

▷**Important:** When you press the pause button while viewing the normal picture, the PIP image will appear and be frozen.



Using the Snap-shot feature





❶ Select "Use Advanced PIP" in the "Customize Viewing" menu; then, set the current setting to "Snap-shot." (See "Selecting the advanced PIP functions," page 54.)

❷ Use the MENU button to return to the normal picture.

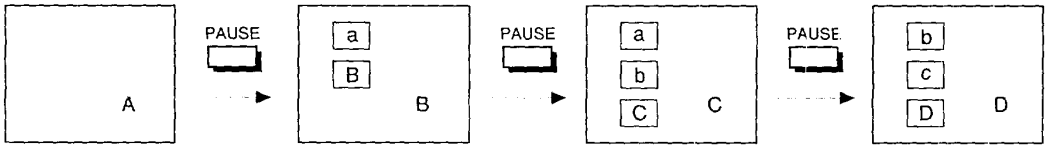
❸ Press the pause button (PAUSE) once; one frozen PIP image and one moving PIP image will appear.

❹ Press the PAUSE button again; the third PIP image will appear, moving. The previous two PIP images will be frozen.

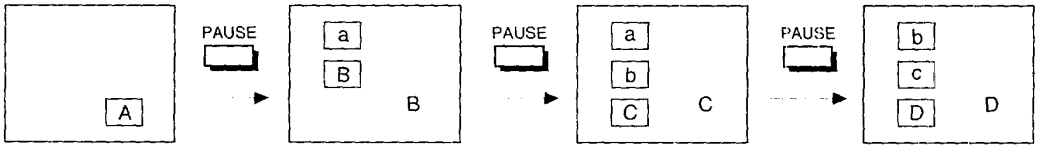
❺ Each time you press the PAUSE button, the PIP images will shift upwards one by one. The top image will disappear and a new frozen image appears when you press PAUSE.

❻ To cancel the PIP image, press the PIP button twice.

if PIP is off

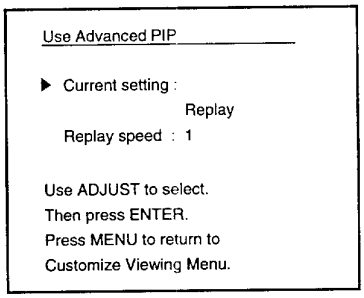


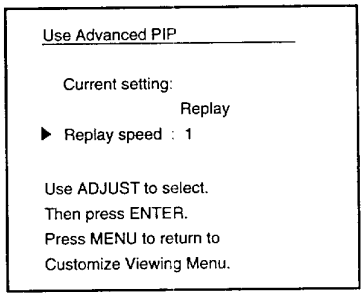
if PIP is on



*A, B, C, D : the moving images
*a, b, c, d : the frozen image of A, B, C, D at the instant the PAUSE button is pressed.

Using the Replay feature



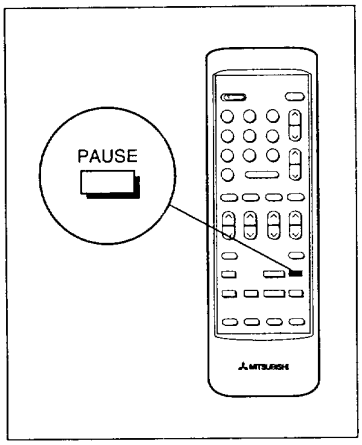


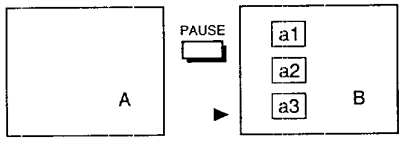
❶ Select "Use Advanced PIP" in the "Customize Viewing" menu; then, set the current setting to "Replay." (See "Selecting the advanced PIP functions," page 54.)

❷ Set the replay speed between 1 (short interval) and 9 (long interval).

❸ Use the MENU button to return to the normal picture.

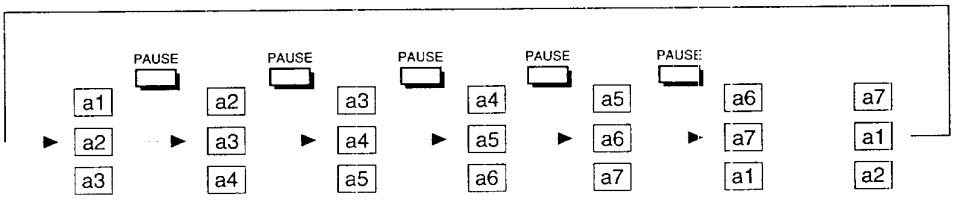
❹ Press the pause button (PAUSE). The TV will memorize seven frames of video from the main image and display the first three of these frames as PIP images. The interval between the frames is determined by the replay speed set in step ❷.)





❺ Each time you press the PAUSE button, the memorized frames will shift upwards.

❻ To cancel the PIP image, press the PIP button twice.



CHAPTER 5

Troubleshooting

Even though you're now familiar with the basic and advanced operations of the TV, you may run into trouble from time to time as you become accustomed to the TV. This chapter offers solutions to some of the common problems you may encounter. We suggest that you consult this chart before contacting a Mitsubishi service representative.

Troubleshooting (cont.)

Problems	Possible Solutions	For More Information
• The remote control doesn't work.	• Check that the batteries are installed correctly.	• See "Getting ready to use the remote control" in Chapter 1 for an explanation of how to install batteries in the remote control.
	• Check that the TV/VCR/AUX switch (CS-27305) or VCR/TV switch (CS-27205) is set to TV.	• See "Remote control buttons and functions" in Chapter 1, which explains where the TV/VCR/AUX (or VCR/TV) switch is located.
	• Be sure that you are pointing the front of the remote control toward the TV from a distance of no more than 20 feet.	• See "Getting ready to use the remote control" in Chapter 1, which contains pointers for using the remote control.
• The TV takes several seconds to respond to button commands.	• Use the ENTER button to avoid delays.	• See "Changing channels" in Chapter 3, which explains the function of the ENTER button.
• You can't access a channel.	• Be sure that the channel you want to view is programmed into memory.	• See "Memorizing channels" in Chapter 3, which explains how to program channels into the TV's memory.
	• Check that the TV is tuned to the correct input source (antenna) for that channel.	• See "Selecting the input source" in Chapter 3, which explains how to change the input source.

Problems	Possible Solutions	For More Information
• On-screen displays appear each time you adjust a function.	• This is part of the normal operation of the TV.	• See "Understanding the On-Screen Displays" in Chapter 4 for a full explanation of the on-screen displays.
• There's no sound even when the volume is turned up.	• Check that the MUTE button isn't on.	• See "Remote control buttons and functions" in Chapter 1, which explains the location and function of the MUTE button.
	• The TV's reception mode may be set to "separate audio program (SAP)."	• See "Adjusting the sound" in Chapter 3, which explains how to select the appropriate reception mode.
• You forget the code you used to set the parental lock.	• Use the alternate procedure that doesn't require the use of the code.	• See the Appendix "Automatic Procedure for the Parental Lock."
• You can't program the TV to turn on automatically.	• The TV may be locked.	• See "Using the parental lock" of "Using the Advanced Features" in Chapter 3.
• The sound doesn't match the image on screen.	• The TV 's reception mode may be set to "separate audio program (SAP)."	• See "Adjusting the sound" in Chapter 3, which explains how to select the appropriate reception mode.
• There is a large black rectangle on the screen.	• The TV has been set to "text" mode, but there is no text information being broadcast.	• See "Using the closed caption decoder" under "Getting Started" in Chapter 3.

Caution and Care

▶Warning:

Don't leave stationary images, such as those generated from stock market reports or video games, on-screen for more than 10 minutes. Still patterns can scar the TV, causing permanent damage to the picture tube.

▷Important: If you plan to place speakers next to the TV, make sure they are magnetically shielded. Ordinary speakers will cause distortion in the picture due to their strong magnets. This distortion, however, will not harm the picture tube.

For maximum enjoyment and safe operation of your MITSUBISHI Color TV, please read the "IMPORTANT SAFEGUARDS" carefully and apply them properly.

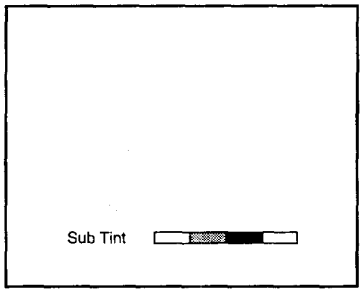
Calling for service

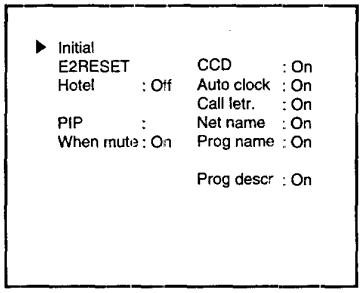
If you have a problem that you cannot correct, consult your MITSUBISHI dealer or MITSUBISHI Authorized Warranty Service Center.

Do not adjust any controls not described in this owner's guide.

Do not remove the protective back cover of this unit.

If you see one of the following displays on your screen, you should not change any settings. These are special displays used by the factory.





If the left display appears, turn the TV off. If the right display appears, make sure that all of the on/off settings are the same as the illustration above and then turn the TV off. If any of the settings are different from the illustration above, turn the TV off and consult your MITSUBISHI dealer or MITSUBISHI Authorized Warranty Service Center.

APPENDIX

Automatic Procedure for the Parental Lock

Cut along dotted line and file after reading. 83

After you lock the TV, you will need the secret code in order to:

- view the locked TV, or
- cancel the lock.

If you forget the code, you can view the locked TV without entering the code. To do this, simply press the buttons on your remote labeled "QV" and "9" at the same time.

▷**Important:** Unlocking with this procedure is only temporary. To cancel the lock completely, follow the procedure below:

1. Press the "QV" button and the "9" button on the remote control at the same time. This will allow you to turn on a locked TV.
2. Press the MENU button to view the main menu. Use the ADJUST button to select "Advanced Features." Press ENTER.
3. Use the ADJUST button to select "Use Parental Lock." Press ENTER.
4. Use the ADJUST button to select "Lock the TV" or "Lock the channel." Press ENTER.
5. Press the "QV" button and the "9" button on the remote control at the same time. This will turn off the lock.

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MEMO

MEMO

MITSUBISHI COLOR TELEVISION OR COLOR MONITOR
LIMITED WARRANTY

MITSUBISHI ELECTRONICS AMERICA, INC. ("MELA") warrants to the original purchaser of this television or monitor if purchased from an authorized MITSUBISHI Audio/Video Dealer that, should it prove defective by reason of improper workmanship and/or material:

a. **Picture Tube.** For two years from the date of purchase at retail, we will repair or replace, at our option, any defective picture tube without charge for the tube.

b. **Other Parts.** For one year from the date of original purchase at retail, we will repair or replace, at our option, any defective part without charge for the part.

c. All parts used for replacement are warranted for the remainder of the original warranty period.

d. **Labor.** For one year from the date of original purchase at retail, we will provide the labor for a warranty repair by an authorized MITSUBISHI service center without charge.

e. **Notice.** To obtain warranty service, you must notify an authorized MITSUBISHI service center of any defect within the applicable warranty time period.

1. TO OBTAIN WARRANTY SERVICE DURING THE FIRST YEAR:

a. Contact your nearest authorized MITSUBISHI service center, whose name and address can be obtained from your MITSUBISHI dealer or by writing or calling MELA at the address and telephone number provided below.

b. Warranty service will be provided in your home or, if required, at an authorized service shop, provided that your television is located within the geographic territory customarily covered by an authorized MITSUBISHI service center. If not, you must either deliver your television to an authorized service location at your own expense, or pay for any travel and/or transportation costs the service center may charge to and from your home. Actual service labor will be provided without charge.

c. Proof of purchase date from an authorized MITSUBISHI Dealer is required when requesting warranty service. Present your sales receipt or other document which establishes proof and date of purchase. THE RETURN OF THE OWNER REGISTRATION CARD IS NOT A CONDITION OF WARRANTY COVERAGE. However, please return the Owner Registration Card so that we can contact you should a question of safety arise which could affect you.

2. AFTER THE FIRST YEAR, to obtain warranty service for a defective picture tube, you are responsible for delivering the television or monitor to an authorized MITSUBISHI service center at your own expense.

3. THIS WARRANTY DOES NOT COVER damage caused by: modification, alteration, repair or service of this product by anyone other than an authorized MITSUBISHI service center: physical abuse to, or misuse of, the product; operation in a manner contrary to the instructions which accompany the product; freight damage; or any damage caused by acts of God such as lightning or fluctuation in electrical power. This warranty also excludes all costs arising from installation, adjustment of user controls, external antenna systems, service of products purchased or serviced outside the U.S.A., initial technical adjustments (set-up) and user-required maintenance. Consult the operating instructions furnished with the product for information regarding user controls.

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7. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

8. BEFORE REQUESTING SERVICE, please review the instruction booklet to insure proper installation and correct customer control adjustment. If the problem persists, contact your nearest MITSUBISHI Dealer for name(s) of authorized MITSUBISHI Service Center(s). If you are unable to obtain this information, please call 1-800-332-2119, or write us at the address below.

MITSUBISHI ELECTRONICS AMERICA, INC.
P.O. Box 5025
Norcross, GA 30091-5025

MITSUBISHI

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SERIAL NO. _____

CUSTOMER NAME _____

STREET ADDRESS _____

CITY _____ STATE _____ ZIP _____

PHONE ( ) _____ PURCHASE DATE ____ / ____ / ____
MO DAY YR

PLACE OF PURCHASE _____

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